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ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

DISTRICT OF COLUMBIA

FOR

THE YEAR ENDED JUNE 30, 1888.

District of Columbia. Commissioners
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T: Report

WASHINGTON:

GOVERNMENT PRINTING OFFICE.

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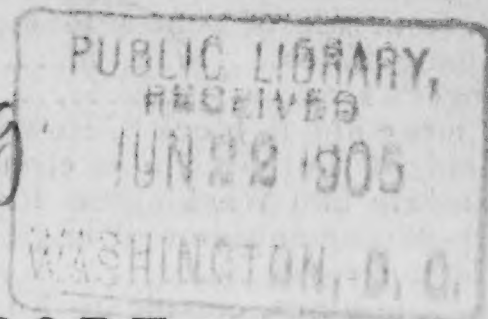
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ANNUAL REPORT

OF THE

COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

OFFICE OF THE COMMISSIONERS
DISTRICT OF COLUMBIA,
Washington, December 1, 1888.

The PRESIDENT:

The annual report of the official doings of the Commissioners of the District of Columbia during the fiscal year ended June 30, 1888, made pursuant to the requirements of the organic law of the District, is hereby submitted, with request for its transmittal to Congress.

The details of the transactions of the District government are mainly embodied in the reports of the officers in charge of the several departments of the District government, hereto appended and made part of this report; but, agreeably to the expressed wishes of members of Congress more intimately concerned with District affairs before that body, the substance of those reports, in a summarized form, is also presented by the Commissioners, with comments thereon and their views on other District matters which, in their opinion, should receive the special consideration of Congress at the coming session.

RECEIPTS AND EXPENDITURES.

The following statement, prepared by the auditor, shows the receipts and expenditures under the various sources of revenues and heads of appropriations during the year:

RECEIPTS.

Balance on hand July 1, 1887	\$1,019,865.92
Repayments to appropriations	10,790.07
General taxes, including penalties	2,112,767.64
Licenses	138,981.55
Markets	17,706.39
Rent of District property	7,206.16
Fines	39,333.23
Fees for tax certificates	2,308.50
Permit fees for sewers and gas	3,551.00
Building permits	7,846.55
Dog tax	11,540.41
Pound fees	391.75
Material furnished	330.97
Sale of school desks and horses	148.50
Labor and sale of products, Reform School	1,571.37
Board of R. Murphy, Washington Asylum	12.00
Fees for inspection of gas and meters	352.00

Col. Bure. Paym. Complete Washington J. Widow of J. Washington A. Water departm. Contractors' guar.

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Surplus from sale of contractor's guaranty bond.....	\$620. 47
Advertising taxes.....	7, 736. 90
Auctioneer's returns.....	66. 68
Sale of lots 8 and 9, block 3, Howard University.....	480. 00
Judgment of United States circuit court, Alexandria, Va., Hay vs. Alexandria and Washington Railroad Company.....	62, 818. 31
Use of pumping-engine and engineer.....	30. 00
Use of steam roller.....	60. 00
Plumber's account, certificate No. 91.....	50. 00
Special-tax erroneously collected on certificate No. 9444.....	166. 17
Sale of certain copies of District reports.....	3. 00
Cost of removal of coal from sidewalk.....	1. 00
Water taxes and rents.....	215, 149. 26
Washington redemption fund.....	691. 04
Special-tax fund.....	13, 443. 51
Redemption of assessment certificates.....	433. 32
Redemption of tax-lien certificates.....	2, 539. 99
Bureau of Engraving and Printing and Quartermaster's Corral sewers.....	2, 443. 30
Surplus fund.....	82. 00
Guaranty fund, act June 11, 1878.....	53, 149. 39
Policemen's relief fund, act February 25, 1885.....	6, 850. 27
Firemen's relief fund, act February 25, 1885.....	1, 245. 13
Received of United States, general expenses.....	1, 793, 194. 48
Received of United States, deficiencies.....	21, 704. 88
Total receipts.....	5, 557, 663. 11

EXPENDITURES.

Improvements and repairs.....	516, 427. 58
Bridges.....	7, 950. 61
Washington Asylum.....	51, 866. 99
Transportation of paupers and prisoners.....	3, 589. 11
Relief of the poor.....	14, 662. 43
Government Hospital for the Insane.....	56, 349. 00
Georgetown Almshouse.....	147. 00
Industrial Home School.....	11, 700. 00
Reform School.....	37, 476. 00
Buildings, Reform School.....	23, 700. 00
Columbia Hospital for Women and Lying-in Asylum.....	15, 000. 00
Woman's Christian Association.....	3, 000. 00
National Association for Destitute Colored Women and Children.....	7, 000. 00
Children's Hospital.....	5, 000. 00
St. Ann's Infant Asylum.....	6, 000. 00
Church Orphanage Association.....	1, 500. 00
Building Church Orphanage Association.....	6, 000. 00
Washington Hospital for Foundlings.....	7, 000. 00
Building St. Rose Industrial School.....	5, 000. 00
Building House of the Good Shepherd.....	3, 000. 00
Building Association for Works of Mercy.....	3, 600. 00
National Homoeopathic Hospital Association.....	3, 000. 00
Salaries and contingent expenses offices.....	151, 658. 30
Streets.....	426, 573. 57
Metropolitan police.....	348, 281. 76
Fire department.....	109, 126. 01
Telegraph and telephone service.....	23, 440. 29
Courts.....	16, 850. 89
Public schools.....	568, 164. 97
Buildings and grounds, public schools.....	162, 063. 97
Allaneous expenses.....	16, 389. 85
department.....	42, 554. 12
and sinking fund.....	1, 213, 947. 97
expenses, District of Columbia.....	2, 648. 76
engraving and Printing, Quartermaster's corral sewers.....	2, 442. 83
ments.....	8, 305. 90
verage system.....	2, 686. 96
nsdell, late register of wills.....	325. 00
.....	20, 000. 00
.....	217, 612. 87
.....	7, 888. 20
.....	47, 995. 83

Washington special-tax fund.....	\$13,418.56
Redemption of tax-lien certificates.....	1,511.47
Redemption of assessment certificates.....	664.00
Redemption of Pennsylvania Avenue scrip.....	626.21
Policemen's relief fund.....	5,635.32
Firemen's relief fund.....	1,115.00
Washington redemption fund.....	672.62

Total expenditures..... 4,201,569.95

Balance on hand July 1, 1888 1,356,093.16

This balance is composed as follows :

Subject to general expenses.....	1,309,635.05
Water fund.....	12,012.92
Contractors' guaranty fund.....	13,285.06
Policemen's relief fund.....	7,914.18
Firemen's relief fund.....	2,335.27
Washington special-tax fund.....	4,471.98
Redemption of tax-lien certificates.....	4,145.63
Washington redemption fund.....	876.28
Redemption of assessment certificates.....	102.75
Redemption of Pennsylvania avenue certificates, act of July 8, 1870...	117.05
Redemption of Pennsylvania avenue certificates, act of July 19, 1876..	176.03
Filling grounds south of the Capitol, under various acts.....	191.07
Sales of property in Washington and Georgetown, act of March 3, 1881.	449.12
General expenses of the District, act March 3, 1875.....	292.31
Surplus fund.....	87.50
Fire department, act June 22, 1874.....	.49
Bureau of Engraving and Printing and Quartermaster's corral sewers, act of March 3, 1887.....	.47
Total.....	1,356,093.16

SURPLUS REVENUE.

The amount of revenue derived from taxes and other private sources in excess of the expenditures chargeable to those revenues, and available for future appropriations July 1, 1888, was \$747,694.59.

DEBT.

The Treasurer of the United States, who is charged by law with the management of the bonded debt of the District, reports that that debt June 30, 1888, was as follows :

Description of bonds.	Date of maturity.	Interest.		Total.
		Rate.	Coin or currency.	
		<i>Per cent.</i>		
Of the District of Columbia :				
Permanent improvement	July 1, 1891	6	Coin	\$3,031,600.00
Water stock	Oct. 1, 1901	7	Currency ..	360,000.00
Market stock	July 26, 1892	7	do	144,900.00
Permanent improvement	July 1, 1891	7	do	515,600.00
Water stock	July 1, 1903	7	do	15,000.00
Fifty-year funding	Aug. 1, 1924	3.65	do	14,033,600.00
Twenty-year funding	July 1, 1899	5	do	920,400.00
Of the late corporation of Washington :				
Three-year (Emery)	July 30, 1873	7.3	do	100.00
Twenty-year funding.....	July 1, 1892	6	Coin	956,150.00
Thirty-year funding	Nov. 1, 1902	6	do	604,100.00
Total				20,581,450.00
Additional stocks and bonds on which interest has ceased :				
Corporation of Washington, ten-year bonds				150.00
Corporation of Washington, 5 per cent. general stock				1,340.01
Corporation of Washington, 6 per cent. general stock				3,480.17
				20,586,420.18

None of this indebtedness was incurred under the present form of municipal government for the District, which went into operation July 1, 1878.

FLOATING DEBT.

The only floating debts of the District are obligations incurred during the year in the nature of judgments of the courts and such others as could not have been anticipated or were not adequately provided for by appropriations and are small in amount.

WATER-SUPPLY DEBT.

The condition of the debt incurred on account of the extension of the Washington Aqueduct is as follows:

Total appropriation advanced by the United States.....	\$2, 570, 279. 30
One-half of which, to be refunded in twenty-five annual instalments out of the water revenues, is.....	1, 285, 139. 65
Deduct amount paid in four annual installments.....	171, 809. 31
To be paid to the United States in twenty-one annual installments,	1, 113, 330. 34

ASSESSMENTS AND COLLECTIONS OF TAXES.

In their last report the Commissioners called attention to the condition of the laws relating to assessments in the District of Columbia, suggested certain changes by means of which they were satisfied the land laws could be greatly improved, and promised to prepare and hand to Congress amendments to the existing law which would greatly modify and improve its operations. They respectfully call attention to what they said about these amendments, and repeat the arguments used by them in their support. For reasons that it is not necessary to state here, the plan of legislation referred to in their report was not formulated and presented as promised. Steps are being taken now, however, to fulfill the promise made, and it is hoped that such changes in the law as will insure a more careful and satisfactory assessment will be put in form and presented to Congress at an early day.

As a matter germane to this subject, attention is called to the defects of the laws providing for the collection of delinquent taxes. For some reason it has seemed almost impossible during the past to enforce the collection of taxes by the sale of property in arrears. Largely this has been due to the want of care in the preparations of the notice of sale, and somewhat to the failure of those having charge of such sales to observe carefully the prescriptions of the law.

As such sales operate to confiscate the property of citizens who have failed to pay their taxes, for the non-payment, frequently, of very small sums, thereby working a hardship, the courts have again and again decided that the failure to observe even the most insignificant proceedings involved in such sales is fatal to the title made under it. It follows, of course, that men hesitate to become purchasers where they are so uncertain of a title, and the result has been of late years very few sales. To obviate this difficulty Congress, some years ago, attempted to provide a method by which delinquent property might be bid in at tax sales by the District of Columbia, and the title so obtained might, by proceedings in court, be made perfect. The plan so devised has not worked well, mainly, it is thought, because the proceeding to obtain

title was a proceeding *in personam*, and not *in rem* as it seems to be conceded it should have been.

It is proposed now to so amend the laws relating to collections of taxes as to insure if possible a good title, either to an individual purchasing at tax sale or to the District of Columbia where it buys for the purpose of recovering delinquent taxes. It must be conceded that no matter so seriously affects the revenue of the District as the one under discussion, and the Commissioners sincerely hope that a plan may be devised and presented to Congress that will meet and overcome the difficulties that surround the matter of the collection of arrearages, and that when presented it will receive the attention and sanction of the legislature.

PERSONAL PROPERTY.

At the suggestion of the Commissioners, Congress made an appropriation, in the last appropriation act, of a sum to be used in enforcing distraint for the collection of taxes on personal property as provided for in an act of Congress approved March 3, 1877. Under this appropriation the Commissioners have taken steps to enforce the collection of the delinquent personal tax. A bailiff has been employed and the bills placed in his hands for collection by distraint. It turns out that upon being notified that proceedings to enforce the tax would be resorted to, and that an officer for that purpose was selected and armed with authority, the parties in default have preferred to pay their taxes, so that the collector has in the two months in which the law has been in operation collected so far, without actual distraint, about \$5,000 that but for the proceedings in question would have been entirely lost. That officer is encouraged to think he may collect about \$15,000 before the end of the fiscal year.

TRANSFERS OF PROPERTY.

The condition of things with respect to reports of transfers of property required to be made under the provisions of the Revised Statutes—deplored by the Commissioners in their last report, continues to exist. No one who gives the matter any consideration can for a moment hesitate to condemn a system which causes so much and so frequent embarrassment as that existing at this time. With respect to the report of transfers by the recorder of deeds to the District assessor, these reports should be made frequently; how frequently it may not be easy to determine, but certainly with sufficient frequency to enable the assessor to ascertain at any time who is the real owner of property delinquent for taxes. As things are now it is impossible to determine at the tax office with any accuracy who is the real owner of property, and as a consequence innumerable mistakes occur. The remedy for this is at hand. A very simple amendment to existing law will effect it and the Commissioners hope such legislation may be had at an early day.

GENERAL ASSESSMENT.

The valuation of real property in the District on June 30, 1888, as reported by the assessor, was—

Taxable:	
Land	\$56,585,903
Improvements	58,899,450
	\$115,485,353
Personal	11,728,672
	127,214,025

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Non-taxable:

Property of the United States.....	\$110,719,684	
Property of the District of Columbia	2,538,772	
Private property exempt by law.....	7,190,634	
		<u>\$120,449,090</u>
Total valuation		247,663,115

The taxable property is located as follows :

City of Washington :

Land.....	\$49,648,393	
Improvements	53,237,650	
Personal.....	10,901,263	
		<u>\$113,787,306</u>

City of Georgetown :

Land	1,981,332	
Improvements	3,006,300	
Personal.....	689,464	
		<u>5,677,096</u>

County of Washington :

Land, at \$1.50.....	2,045,750	
Improvements, at \$1.50	1,750,350	
Land, at \$1.....	2,910,428	
Improvements, at \$1.....	905,150	
Personal.....	137,945	
		<u>7,749,623</u>

Total.....		<u>127,214,025</u>
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The non-taxable property is located as follows :

City of Washington :

Property of the United States	\$105,486,386
Property of the District of Columbia.....	2,288,333
Private property exempt by law.....	6,038,068

City of Georgetown :

Property of the United States	232,987
Property of the District of Columbia.....	189,839
Private property exempt by law.....	340,488

Suburban section :

Property of the United States	5,000,311
Property of the District of Columbia	60,600
Private property exempt by law.....	812,078

The foregoing does not include any personal property of the United States, nor of the private institutions exempt.

NUMBER OF BUILDINGS ASSESSED.

The assessor reports the number of private buildings in the District to be as follows :

In the city of Washington	32,258
In the city of Georgetown.....	2,682
In the suburban sections.....	3,645
Total.....	<u>38,585</u>
An increase of 1,705 since last report.....	

LICENSES.

The assessor also reports that 3,422 licenses were issued during the year, a decrease of 680 licenses and \$26,014.58 in revenues from that source. Seven hundred and twelve of these licenses were for retail and 424 for wholesale liquor dealers, a decrease of 210 in the number of the former and an increase of 22 of the latter.

It is respectfully suggested that excellent results would be obtained by such amendments to the laws regulating the licensing of the traffic in liquors in the District as would place that traffic entirely within the control of the Commissioners. At present the amount demanded for licenses to sell liquors at retail, embracing the privilege to sell such liquors to be drunk on the premises where sold, is so small that the number of such places is out of all proportion to the needs of the population and beyond the possible complete control of the police authorities. There are two kinds of liquor licenses in the District—one the license to sell by the drink to be drunk where sold, known as bar-room, sample room, or tippling-house license, for which a charge of \$100 each is made; and the other known as wholesale license, which enables the holder to sell liquors as merchandise in quantities not less than a pint, not to be drunk upon the premises, for which the charge is a per centum upon the stock in trade, not in any case, however, to be less than \$25. By recent decisions of the courts the difference between the licenses has been very closely drawn, and it is now held that the Commissioners have discretion to a limited extent with reference to and may make any and all reasonable regulations concerning the issuance of these licenses.

But the number of these licenses continues largely in excess of what it should be. It is believed, and the Commissioners do not hesitate to announce, that the largest proportion of the crime and disorder in the community can be traced to these places licensed for the traffic in spirituous liquors, and because of their numbers and the facility with which these licenses are obtained it is impossible properly to restrain this evil. Some method must be devised to reduce the number of these licensed places or to place them completely and entirely under control before the evil complained of can be remedied. The decisions of the courts have accomplished much in this direction, but it is believed much more can be gained by such amendments to the laws as will make the existence of these places in such number impossible. Congress has before it now measures which have had the entire sanction of the Commissioners, so framed as to avert the difficulty mentioned and to relieve the community of this fearful evil. So far these measures have failed to receive the sanction of both houses of Congress so as to become law. The Commissioners do not despair, however, of accomplishing what they want, and it is their intention to persevere in the work until the end is gained.

COLLECTION OF TAXES.

The collector reports collections and deposits in the Treasury by him of revenues received during the year as follows:

Tax on real estate and improvements for the fiscal year ended June 30, 1888	\$1,462,790.77
For prior years (since 1871)	374,162.49
Tax on personalty for year ended June 30, 1888	145,003.42
For prior years (since 1885)	5,054.95
Penalties on realty taxes	128,044.24
Penalties on personalty taxes	878.96
Licenses, fines, and other miscellaneous sources of revenue	316,326.00
Total (including \$16,674.54 trust funds)	2,432,260.83
Water funds	215,149.26
Total	2,647,410.09

Total uncollected general taxes since 1872, \$923,661.11, of which \$213,675.02 were arrears for 1888. This shows a reduction during the

year in the uncollected tax account of \$173,628.31, which was largely due to the law authorizing the payment of arrears with 6 per cent. interest in lieu of all other penalties.

A large proportion of this apparent uncollected balance is composed of charges against property exempt or of doubtful or disputed taxable status, which has been carried on the books from year to year pending the application of some system of eliminating them from the account and showing the exact condition of each piece of property with reference to its tax account.

A plan having this object in view is under trial.

SPECIAL ASSESSMENTS.

The amount of uncollected special assessments for work done under contracts of the board of public works, and under extensions of such contracts, at the termination of last fiscal year was \$322,194.97; \$255,347.36 of this amount, bearing interest at the rate of 10 per cent. per annum since 1876 on an average, represented the security held by the Treasurer of the United States for the redemption of \$109,600 of 8 per cent. certificates of indebtedness (greenbacks) on which there is an accrued interest of about \$75,000.

The amount of these assessments and certificates outstanding has been largely reduced since the end of the fiscal year by payments under the law allowing arrears of taxes to be paid with 6 per cent. interest in lieu of all penalties.

The remainder of these assessments, namely, \$66,847.61, were represented by lien certificates held by private parties, bearing 10 per cent. per annum since 1872 on an average.

Preparations are in progress for the early advertisement and sale of property delinquent for these taxes.

DRAWBACK CERTIFICATES.

The amount of drawback certificates found due by revision under acts of June 19, 1878, and June 27, 1879, to June 30, 1888, is.....		
Amount issued.....		\$954,551.17
Awaiting evidence of ownership.....		942,831.95
Amount redeemed:		11,719.22
In payment of general tax.....		
In payment of special tax.....	\$381,437.12	
	550,052.97	
Amount outstanding.....		
		931,490.09
		11,341.87

There are a number of special assessments which the courts have held to be invalid on technical grounds, but which on equitable principles are as justly due as any others. The Commissioners therefore renew their indorsement of the recommendation of the officer in charge of the special assessment division that in cases of that character the Commissioners be authorized to make re-assessments wherever it shall appear that the work was well done and paid for by the District.

OLD CORPORATION SPECIAL ASSESSMENTS.

The amount of special assessments levied by the late corporation of Washington collected during the year was \$13,778.73.

COMPULSORY PERMIT ASSESSMENTS.

The special assessment officer has also collected during the year \$5,905.39 of assessments for work done under the compulsory permit system. The payment of this class of assessments would be greatly expedited by the enactment of a law making these liens bear interest. The Commissioners propose to submit to Congress at the coming session a measure designed to remove the existing embarrassments in the premises.

FIRE DEPARTMENT.

The fire department consists of 1 chief engineer, 2 assistants to chief, 1 clerk, 4 watchmen, 8 engine companies, and 2 truck companies. Each engine company consists of 1 foreman, 1 engineer, 1 fireman, 1 hostler, and 6 privates, except one to which no foreman has yet been assigned. Each truck company consists of 1 foreman, 1 assistant foreman, who is also tillerman, and 10 men. The apparatus of the department consists of 10 steam fire-engines, 11 hose carriages, 2 being held in reserve, and 3 trucks.

There were 174 alarms of fire during the year attended by an estimated loss of \$68,446, covered by insurance of \$53,927.

The work of the department during the year has tended to increase, if possible, the public confidence in its skill and reliability, and respect for its personnel.

The Commissioners included in their estimates for 1890 an item for the purchase of a chemical engine, which they propose to keep where it will be most easily accessible for use in cases of fires in sections where highly inflammable articles are most largely manufactured or stored.

RELIEF FUND.

The relief fund for the members of the fire department, which is derived from the monthly payment of \$1 by each member of that department, will soon be inadequate to meet the demands upon it, and would be insufficient if another were added. This is likely to occur at any moment, and the possibilities of such a default must have a depressing influence on the members of the department.

If the established policy of the Government to regard men who, as a necessary incident of their employment, constantly imperil their health and lives in the public service, as entitled to special provision for themselves in case of their injury and for their families in case of their death is right, then the fireman's relief fund should be placed on a basis that would give the members of the department absolute confidence that there will be no failure to make generous provision for them and those dependent on them if they should meet disaster in consequence of their fidelity and daring in the line of duty. This can readily be accomplished by a general law directing that the allowance now authorized or such other as may be deemed more suitable shall be paid out of any funds in the Treasury to the credit of the District, and out of the Treasury of the United States, not otherwise appropriated, in equal parts.

POLICE.

The police force consisted of the following on June 30, 1888: one superintendent, 1 captain, 2 inspectors, 8 lieutenants, 20 sergeants, 255 privates. To this force 1 lieutenant, 2 sergeants, and 30 privates were

added since in pursuance of a provision in the last District appropriation law, authorizing the increase.

There is still an imperative need for a further increase. A bill having that object in view has passed the House of Representatives, and if it should become a law would add 8 sergeants and 60 privates to the present force. While the demands on the force would engage the vigilant attention of a larger number these additions will enable the department to extend its surveillance over sections heretofore neglected or unfrequently patrolled, and effect an appreciable increase in the efficiency of the entire service.

The department is still seriously hampered by the law restricting appointments of the force to those who have served in the Army or Navy of the United States and received an honorable discharge therefrom. The Commissioners have so frequently and fully expressed to Congress their views as to the impolicy of this provision that any further argument from them on the subject would be superfluous. They deem it their duty, however, to add that while it prevails, the personnel of the force will never attain the high standard it would but for this unreasonable requirement.

CENSUS OF THE DISTRICT.

In addition to their regular duties the police took a census of the inhabitants of the District, showing the population on the 15th of June, 1888, as follows:

City of Washington.....	179,448
City of Georgetown.....	14,345
Suburban district.....	24,364
White population.....	218,157
Colored population.....	145,635
	72,522

One noticeable feature of the various enumerations of the population of the District since 1860 is that the colored and white population have substantially maintained the same relative proportions, namely, two-thirds white and one-third colored.

When this census of last June was taken the city had comparatively few people in it other than its permanent population. It was thought a good thing to do this, and it will probably be repeated at intervals. This census was taken more particularly to ascertain the real number of children in the District of school age, how many were attending school at the public and private schools, and how many were without educational privileges. The report of the Major of Police appended hereto gives full details of that enumeration.

DISTRIBUTION OF RELIEF TO POOR.

The Commissioners intrusted to the police, for use in the relief of the poor, \$2,000 out of the appropriation of \$15,000 for a general poor fund, and are satisfied that that amount so distributed accomplished a greater amount of good than it could have done through any other available instrumentality.

The police also provided transportation out of the District for non-resident poor and others to the extent of \$3,731.83.

The Commissioners can not close their review of the report of this department without bearing testimony to its evident increase in discipline and efficiency since the present superintendent took charge.

PUBLIC SCHOOLS.

The public schools of the District affect in some degree all classes of citizens, and consequently receive a large share of the thought and attention of the public. The Commissioners have sought to know the needs of the schools and to be familiar with their management. For the accomplishment of these ends much time has been spent and a full share of thought and labor given. These schools are managed by a board of trustees, whose acts and rulings have been in the highest degree commendable.

Their report for the year, which includes those of the superintendents and other officials, is herewith transmitted.

Nearly thirty-seven thousand persons received instruction in our schools during the year ended June 30, 1888. The day schools enrolled thirty-five thousand, in round numbers, which is nearly one-sixth part of our entire population.

The District owns, for the accommodation of these children, seventy-one school buildings, most of which are convenient, inviting, and healthful structures. To these will soon be added eleven good houses, now building.

Six hundred and fifty-six teachers and superintendents were employed. To these was paid in salaries the sum of \$447,547.65.

During the year the department of manual training was enlarged and extended, with results in every way gratifying as before.

NIGHT SCHOOLS.

The night schools were better attended than in former years.

The class of pupils reached by these schools is most worthy and most needy, being deprived of day-school privileges by the mandatory duties of bread winning. More than two thousand persons were thereby benefited.

The Commissioners, impressed with the importance of this great interest in our community, believe it should be sustained, encouraged, and promoted by liberal appropriations and by the co-operation of all right-minded citizens.

The year past was marked by harmony, efficiency, and improvement, which augurs well for the future of our schools.

ATTORNEY.

The principal matters of general interest in the attorney's report are his references to the cases of the District of Columbia against the Baltimore and Potomac Railroad Company growing out of an accident to one Barnes; that of the District of Columbia against McBlair, and that of Francis Wood and others against the District of Columbia.

The first case was instituted to recover from the railroad company the amount of a judgment rendered against the District involving the question of the liability over to the District of the persons or corporations guilty of the primary negligence in such cases. The case was decided in favor of the District in the supreme court of the District, but owing to the failure of the company to duly file the record and docket the cause, its appeal to the Supreme Court of the United States was dismissed and the opportunity for an ultimate determination of the principles involved thereby lost.

The McBlair case involved the title of the District to the valuable

property known as the Western Market, and was decided favorably to the District by the Supreme Court of the United States.

In the case of Wood, the court gave a very comprehensive decision in favor of the District as to the curative effects of the acts of Congress of June 19, 1878, and June 27, 1879, upon the special assessment of the late board of public works.

One hundred and thirty-nine cases were finally disposed of and 142 new ones instituted in the supreme court of the District. Eight thousand four hundred and thirty cases were tried in the police court, resulting in 7,770 convictions and the imposition of \$43,359 in fines.

SUMMARY COMMITMENT OF THE NON-INDIGENT INSANE.

The attorney again calls attention to the necessity for a law providing for the summary commitment of non-indigent insane persons, to which he and the Commissioners earnestly called attention in their last annual reports. The reasons then given still apply and with greater force. Until the authorities are vested with a power of commitment of such lunatics pending the preliminary proceedings on the question of their sanity the community will frequently be exposed to serious risk from persons of this class.

INSPECTOR OF BUILDINGS.

The number of permits for the erection of private buildings during the year is 2,420, representing a total valuation of \$6,269,994; 2,159 of these structures were brick, and 1,099 dwellings. The office issued permits for use of water in the construction and repair of buildings amounting to \$2,064 45; the fees from building permits amounted to \$7,846.55; making the total receipts of the office \$9,911.

The office has also prepared designs, plans, and specifications for the construction and repair of a number of school and other municipal buildings, involving an expenditure of nearly \$260,000.

CORONER.

The coroner reports that he certified to deaths requiring his official attention during the year as follows:

Snicides.....	13	Disease	344
Homicides.....	14	Still-births.....	76
Infanticides.....	14		
Accidents	69		
			530

HEALTH OFFICE.

From the health officer's report it appears that the reputation of the District for healthfulness has been fully maintained.

The total deaths were 2,778 whites and 2,262 colored, or 18.52 per 1,000 for the former and 30.16 per 1,000 for the latter. As the death-rate of the latter has averaged 34 per 1,000 for the past thirteen years, this showing is a gratifying indication of their improvement in the apprehension and observance of sanitary considerations. The average annual death-rate of whites for the same period has been 18.77 per 1,000.

The population of the District upon which the above rates are estimated is 150,000 white and 75,000 colored.

The number of births reported was 1,048 white males, 987 white females, 830 colored males, and 805 colored females.

He renews his recommendation that ashes be removed at public expense, as accumulations of ashes generally receive additions of kitchen refuse, which in decaying develops noxious emanations prejudicial to the public health.

One of the most valuable offices performed by the health department is the condemnation of unwholesome food offered for sale, as will appear from the statistics on the subject in the health officer's appended report.

Under the supervision of this department 4,745 white and 10,607 colored indigent patients received gratuitous medical treatment and medicine, at the cost of \$8,887, out of the portion of the fund of \$15,000 for the relief of the poor allotted to the health officer for expenditure.

STREET AND ALLEY CLEANING.

The duty of supervising the sweeping and cleaning of streets, avenues, and alleys was placed under the health department on the 6th of last February.

The average daily work of sweeping and cleaning streets and avenues since has been 157,140 square yards.

CEMETERIES, AND THE DISPOSAL OF THE DEAD.

The health officer reiterates his views on the subject of cemeteries, and regards incineration as the best method of finally disposing of human remains.

Whatever may be the conclusion on this subject, there can be no doubt of the pernicious influence to the public health of burying-grounds close to populous localities, and that the extent to which the urban portions of the District are exposed on this account must soon be a matter for governmental action.

REMOVAL OF GARBAGE.

This office cites the insufficiency of the current appropriation for the removal of garbage. This the Commissioners anticipated and increased the item in their estimate for 1890, on account of this work, to \$20,000.

INSPECTOR OF PLUMBING.

This officer reports a better understanding on the part of the owners and architects relative to the requirements of his office and of the advantages to all concerned of making their plans of structures conform therewith.

The official functions of this officer should be extended to include authority to inspect buildings heretofore as well as to those hereafter constructed in the District, and to pass upon the efficiency of their plumbing facilities.

One of the principal causes of embarrassment in the administration of this office has been the inadequacy of the Commissioners' power to regulate the work of plumbers. The Commissioners sought to improve the condition of affairs by submitting, with request for favorable action thereon, bill H. R. 10059 to the first session of the present Congress, and again recommend its enactment.

COMMISSIONERS OF PHARMACY.

The commissioners of pharmacy report the examination and admission to registry by them of forty-three pharmacists during the year, or a total of three hundred and ninety-three since their organization.

PROPERTY CLERK.

The business of this officer is of too miscellaneous a nature to admit of the making of an abstract report of his official doings that would convey a clear idea of his work. He receives and distributes all property which in any way enters into the possession of the District, whether for public improvements or the contingent objects of administration. He also keeps a running account of all District appropriations, and is held responsible that no requisition is honored which would result in an expenditure in excess of the appropriations. His office is well systematized and creditably administered.

MUNICIPAL MARKETS.

The receipts from the three markets under municipal ownership and control in the District amounted to \$10,763.11; the expenditures on the same account were \$4,100; an excess of receipts over cost of maintenance of \$6,663.11.

INSPECTORS AND MEASURERS OF FIRE-WOOD.

The inspectors and measurers of wood report the inspection and measurement of 27,776 cords of fire-wood landed and sold in the cities of Washington and Georgetown.

INSPECTORS AND MEASURERS OF LUMBER.

The inspectors and measurers of lumber report that they measured and inspected 27,875,094 feet of lumber brought into and sold in the District that had not been previously measured.

INSPECTORS OF FLOUR.

The inspectors of flour report that they inspected 201,500 barrels of flour manufactured in or brought into the District for sale.

SEALER OF WEIGHTS AND MEASURES.

The peculiar nature of this officer's duty precludes the making of a satisfactory summary of the statistics of his office. His report herewith, as well as general report, indicate that he has discharged the delicate duties of the office with zeal and intelligence.

This officer and the inspectors of wood, lumber, and flour receive no compensation from the District, but derive their pay from fees collected from those whose property is subjected to their official action.

HARBOR MASTER.

The harbor master is hindered in his efforts to supervise the harbor traffic by the inadequacy of the present harbor laws. The Commis-

sioners have no authority to enlarge or modify his official purview, but have applied to Congress for the necessary legislation in the premises. H. R. bill 9630, having that object in view, was introduced at their instance during the last session.

During the year the Commissioners purchased a small steam-launch to enable the harbor master and police to patrol the river, enforce the law and harbor regulations, and to render other public services which they could not have done without this adjunct. The experience so far with the boat has justified the outlay for its purchase and maintenance. In addition to other duties performed, the boat has rendered valuable service in the saving of many lives from drowning.

CODIFICATION OF DISTRICT LAWS.

The Commissioners regret that Congress has not authorized the preparation of a code of District municipal laws. They can present nothing in addition to what they have already advanced on this subject, except to state that the embarrassment from the absence of a convenient compilation of those laws increases with each succeeding year.

CHARITABLE AND REFORMATORY INSTITUTIONS RECEIVING AID FROM DISTRICT REVENUES.

Pursuant to the requirement in the District appropriation law for the fiscal year ending June 30, 1889, "that hereafter the several institutions included under the heads of asylums, reformatories, industrial schools, and charities, named in the annual appropriation acts for the support of the District of Columbia, shall report to the Commissioners of the District, on or before the first day of December of each year, a full and detailed account of receipts and expenditures, and all their operations, and said Commissioners shall transmit the same to Congress at the beginning of each regular session, with such suggestions and recommendations as they may deem pertinent, together with estimates for maintaining the same," the Commissioners requested each of the institutions referred to to make to them the reports contemplated by that proviso, and received responses more or less comprehensive from each.

In their report made to Congress last year on the subject of affording aid to private institutions of charity and reform, the Commissioners set forth the difficulties in the way of obtaining reliable data concerning such institutions and recommended that provision be made for an officer whose special duty it should be to supervise all disbursements of public funds for eleemosynary and correctional purposes. They still find that it will require the knowledge only to be acquired by an official having such intimate and constant access to those institutions as such an officer could have, to obtain satisfactory data for estimates as to the usefulness and needs of those agencies.

With their present facilities, the Commissioners are unable to arrive at any basis for estimates as to the amount that should be appropriated in aid of the above charities, other than the data afforded by the reports of the several institutions involved, from which it appears that the amount heretofore appropriated has closely approximated to the amount of aid needed beyond their other resources.

They herewith submit the following abstract of the contents of the reports made to them, preceding them in each case by a brief statement of the origin and character of the institution concerned.

WASHINGTON ASYLUM.

This is a municipal institution, and comprises the almshouse and work-house of the District. The almshouse affords the facilities which are common to such institutions for accommodation and care of paupers, and the work-house is for the confinement and utilization of the labor of those subject to imprisonment for infractions of municipal ordinances in force in the District.

A hospital is also connected with the institution. It is well arranged and supplied for the care and treatment of patients.

The appropriations for the support of this institution for the fiscal year ended June 30, 1888, were as follows :

For salaries.....	\$13,305.00	
Support	40,000.00	
		<u>\$53,305.00</u>
Expenditures :		
Salaries	13,040.85	
Support	39,293.28	
		<u>52,334.13</u>
Unexpended balance		970.87

Commissioners' estimate for 1890 :

Salaries	13,415.00
Support	40,000.00
New building (lying-in ward)	2,500.00

The number received in work-house during the year was 2,975.

The number received in almshouse during the same period was 315.

The number received in hospital was 452 and 30 births; the number discharged and died was 475.

The daily average number in care and custody of the institution was:

Work-house	168
Almshouse	171
Hospital	82
Total	<u>421</u>

The daily average number of employés was 35.

The cost per capita was, for attendance, \$30.97; for subsistence, \$93.34.

Work done by inmates.—This institution should be credited with the work done by its inmates, such as grading, graveling, and cleaning streets; working the farm, garden, and dairy; the manufacturing of articles for use of inmates, and numerous other employments in which their labor has been profitably utilized. The annual value in day's labor of such work is estimated at \$22,000.

Some kind of employment for those who are able, is imperatively necessary. The kind of work selected for them is that which in the judgment of those in charge will be most influential for good on sanitary and moral grounds, and least exposed to the objection commonly urged against the employment of this class.

The intendant notes a great improvement in the conduct and condition of the female work-house inmates since the sexes have been confined in separate buildings.

A detailed statement of receipts and expenditures and all other operations of the institution is contained in Appendix H 1.

REFORM SCHOOL.

This institution is situated on the Bladensburg road, about 2 miles north of the city of Washington, and has for its object the reformation of boys under sixteen years of age who become liable to punishment by imprisonment, and boys not amenable to parental or other private disciplinary influence.

It was originally incorporated by Congress as a "House of Correction for Boys," by act approved July 25, 1866 (Vol. 14, p. 232, U. S. Stats. L.), but the title was changed to the "Reform School of the District of Columbia" by act of Congress, approved May 6, 1870. (Vol. 16, p. 119, U. S. Stat. L.).

It is managed by a corporation named "Board of Trustees of the Reform School of the District of Columbia," consisting of seven persons appointed by the President of the United States on recommendation of the Attorney-General (Vol. 19, p. 49, U. S. Stat. L.), and two consulting trustees, namely, one Senator, appointed by the presiding officer of the Senate for a term of four years, and one member of the House of Representatives, appointed by the Speaker thereof for a term of two years (*Id.*, p. 52), and one of the Commissioners of the District of Columbia, *ex officio* (Vol. 21, p. 156, U. S. Stat. L.).

The necessity for this institution is apparent, and its usefulness is commensurate with the facilities at the command of those who have it in charge.

The trustees report that sixty-five boys were received during the year, and that the daily average number under care during said period was one hundred and fifty-seven. The cost per capita for the year was about \$230.

The receipts for salaries and support	\$37,476.00
The disbursements, salaries and support	36,576.23

Balance unexpended	899.77
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The receipts for buildings and other improvements	37,680.70
The disbursements for buildings and other improvements	37,298.51

Balance unexpended	382.19
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Commissioners' estimate for 1890:

Salaries	\$12,596.00
Support	26,000.00
Buildings	9,000.00

The Commissioners also included estimates for this institution in their annual estimates for 1890, submitted to the Secretary of the Treasury last October.

The institution paid \$3,115.65 into the United States Treasury, all of which were proceeds of sale of farm products and articles produced by labor of inmates, not needed for consumption or use in the institution.

Full details of the operations of the institution and its receipts and expenditures are given in the report of the trustees in Appendix H 2.

INDUSTRIAL HOME SCHOOL.

This institution is located east of Tennallytown road, near the city of Georgetown. Its object is to provide shelter for and to educate in the elementary principles of handicraft, in connection with ordinary mental studies, children between the ages of five and fifteen years, who from indigency or neglect would otherwise be without such instruction.

Such children are admitted upon order of the court or request of parents or others, after due investigation as to the merits of each case.

The institution was incorporated March 12, 1872, under the act of May 5, 1870, providing for the creation of corporations in the District by general law.

The general control is exercised by a board of managers, elected at annual meetings of the association, held on the last Monday of October.

The sites for the buildings of this institution and the contiguous land used by it belong to the District of Columbia. This ground was deeded to the city of Georgetown by Elisha W. Williams, July 19, 1830, and was used by that corporation for almshouse purposes, but is now occupied by this institution under permission of the Commissioners of the District of Columbia.

The value of the buildings and grounds is estimated at over \$40,000.

The buildings will accommodate about 100, but the means at the disposal of the managers are inadequate for the support and care of that number.

The number admitted during the last fiscal year was 50. The monthly average present is reported to have been 86.

The cost per capita for the year of maintenance of dependents, including salaries, supplies, furniture, and ordinary repairs, was \$116.33.

The receipts were:

United States appropriation	\$10,000.00	
Other sources	3,941.91	
		\$13,941.91
The expenditures	12,504.42	
Unpaid bills	1,537.51	
		14,041.93
Excess of expenditure		100.02

This excess has since been more than made good by receipts from sales of flowers disposed of before July 1, 1888.

The cash proceeds of labor of inmates is reported to have been \$771.11. In connection with this there should be taken into consideration that a great quantity of fresh vegetables, etc., raised upon the premises, was consumed by inmates, and that many articles of clothing, etc., for use of the inmates were made by the children, and expenditures to the extent of the value thereof thereby avoided.

The managers estimate as follows for the requirements of the institution:

Support	\$12,000
Promotion of industries	1,000
Steam heating	3,000
Total	16,000

Commissioners' estimate for 1890:

Salaries and support	11,000
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Detailed statements of operations, receipts, and expenditures are included in Appendix II 3.

WASHINGTON NIGHT-LODGING HOUSE ASSOCIATION.

The object of this organization is to furnish temporary food and lodging to indigent persons.

The treasurer of the association reports receipts :

From appropriation by Congress	\$1,500.00
From fund for relief of poor	400.00
From other sources	1,734.58
	3,634.58
Expenditures	3,706.98
Excess of expenditures	72.40

The association reports that its records show that an average of twenty persons a day were accommodated during the period rooms were open.

Commissioners' estimate for 1890, \$1,500.

Details of operations are contained in Appendix H 4.

COLUMBIA HOSPITAL FOR WOMEN.

The Columbia Hospital for Women and Lying-in Asylum has for its object, as stated in its act of incorporation, "to found in the city of Washington a hospital and dispensary for the treatment of diseases peculiar to women, and a lying-in asylum, in which those unable to pay therefor shall be furnished with board, lodging, medicine, and medical attendance gratuitously."

Although not seemingly contemplated by its charter, it appears by the report of the board of directors that pay patients also are received.

The institution occupies a large tract of ground fronting on L street, at the northeast corner of Twenty-fifth street, purchased out of an appropriation made for that purpose by Congress. The title is vested in the United States. (Vol. 17, p. 360.)

The affairs of the corporation are controlled and managed by a board of nineteen directors, appointed pursuant to act of March, 1886 (vol. 14, p. 55), as amended by act of June 10, 1872 (vol. 17, p. 360), and June 7, 1880 (vol. 21, p. 157).

This board includes one Senator, to be appointed by the President of the Senate, and two Representatives appointed by the Speaker of the House, to hold for term of single Congress, and one of the Commissioners of the District of Columbia, *ex-officio* (vol. 21, p. 157, U. S. Stat. L.).

The daily average number of patients in the institution during the last fiscal year was 32.

The receipts of the institution during the last fiscal year were :

From the United States appropriation	\$15,000.00
Pay patients	5,783.00
Balance on hand of pay patients' fund	7,071.43
	27,854.43
Expenditures	27,015.37
Balance on June 30, 1888	839.06

Commissioners' estimate for 1890, which is same as officers of the hospital, \$15,000.

Detailed statement of receipts and expenditures and of all the operations of the institution are contained in Appendix H 5.

WOMAN'S CHRISTIAN ASSOCIATION.

The objects of this association, as expressed in its charter, are "to afford relief and aid to the destitute, work for those seeking employ-

ment, homes for the homeless, sympathy for the friendless, to reform the fallen, and bestow such Christian benevolence upon the needy as our means allow."

It was chartered under the general incorporation law for the District of Columbia December 13, 1870.

Its affairs are managed by a board of managers, indefinite in number, elected annually by the association.

The buildings are located at 1719 Thirteenth street, northwest, and, with the grounds, are valued at about \$50,000. They have a capacity of 62, when fully furnished.

The number of inmates received during the last fiscal year was 157. The daily average was 51.

The receipts during said fiscal year, including balance of \$1,990.82, were.. \$9,749.34
The expenditures during said fiscal year were..... 9,221.82

Unexpended balance..... 527.52

Commissioners' estimate for 1890:

Maintenance..... \$4,000.00

The details of the receipts and expenditures, as well as the operations of the association, are contained in Appendix H 6.

NATIONAL ASSOCIATION FOR THE RELIEF OF DESTITUTE COLORED WOMEN AND CHILDREN.

The National Association for the Relief of Destitute Colored Women and Children has for its object, as stated in its charter, "the supporting of such aged and indigent colored women and children as may properly come under the charge of such association, provide for them suitable homes, board, clothing, and instructions, and to bring them under Christian influences."

The charter was granted by Congress February 14, 1863 (vol. 12, p. 650).

This institution is managed by an executive committee, consisting of the president, vice-president, secretary, and treasurer of the association, and board of managers of nine members.

The secretary of the association estimates the value of the grounds at \$10,000 and of the building at \$38,000. The buildings are situated on Eighth street, north of Boundary, and consist of two-story and basement brick structures, one 50 by 60 feet, and a wing connected therewith, about half the size of the main building. They were constructed for the purposes of the institution, and seem to be kept in good order and to be suitable for the purposes for which they were intended. The capacity of the building is for about 130 children and 20 aged women.

The daily average number of inmates during the year was about 110. The receipts and expenditures during the period under consideration were:

Receipts from appropriation..... \$7,000
Expenditures..... 7,000

The receipts were insufficient to meet the cost of maintenance, and the officers report that \$10,000 will be required next year, which the Commissioners recommend.

A detailed statement of this expenditure and of the operations of the institution is contained in Appendix H 7.

This institution not only affords accommodations and support to its inmates, but mental and industrial instruction to those of them who are capable of receiving benefit from such training.

CHILDREN'S HOSPITAL.

The object of this institution is the gratuitous medical and surgical treatment of indigent children under the age of twelve years.

It is chartered under the general incorporation act of the District, under date of December 2, 1870, and amended June 24, 1884.

The buildings are located in square 272 in the city of Washington. They are valued, with the appurtenant ground, at \$80,000, and have a capacity of 60 in the regular white and colored wards, and 15 in the isolated and special wards. The number received during the fiscal year in the dispensary was 1,925; 1,981 were discharged. The number received into the hospital was 178. The daily average number of inmates in the hospital was about 50. A detailed statement of the receipts and expenditures is contained in Appendix H 8.

Receipts from appropriation.....	\$5,000.00
Receipts from other sources.....	12,871.25
	17,871.25
Expenditures.....	11,475.97

Commissioners' estimate for 1890:

Maintenance.....	\$5,000
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ST. ANN'S INFANT ASYLUM.

The object of this institution is to provide for the support and care of foundlings and orphan children and for deserving, indigent, and dependent females during confinement.

It was chartered by act of Congress, March 3, 1863 (vol. 12, U. S. Stats., p. 793).

The building is situated on square 39, at intersection of New Hampshire avenue, K, and Twenty-fourth streets northwest, and is valued at about \$45,000.

It has capacity for accommodation of 85 children, and is now full. Those in charge also have supervision of 25 others—infants—who are out at nurse.

The daily average number of inmates during the year was 110.

The sister in charge reports that the receipts were—

Appropriation by Congress.....	\$6,000.00
Other sources.....	2,476.84
	8,476.84
Expenses.....	8,337.86

Commissioners' estimate for 1890:

Maintenance.....	\$6,000
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A detailed statement of expenditures and receipts of the institution is set forth in Appendix H 9.

CHURCH ORPHANAGE.

The object of this association is the establishment and maintenance of homes for destitute orphans, and of agencies for the treatment and care of indigent children, requiring attention on account of sickness or injury.

It was chartered under the general incorporation laws of the District of Columbia, April 25, 1882, and is controlled and managed by a board of trustees, elected by the association.

24 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

The building is located at 525 Twentieth street northwest, and, with appurtenant ground, is valued at \$25,000. It will accommodate, when fully equipped, seventy inmates.

The receipts and expenditures were:

Receipts from District of Columbia appropriation.....	\$7,500.00
Receipts from other sources	2,437.87
Expenditures	9,937.87
	10,647.48
Excess of expenditures.....	709.61

Commissioners' estimate for 1890:

Maintenance	\$1,500
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A detailed report of receipts and expenditures is contained in Appendix H 10.

WASHINGTON HOSPITAL FOR FOUNDLINGS.

The Washington Hospital for Foundlings was incorporated by act of April 22, 1870. (Vol. 16, p. 92.)

The management and control of the hospital is intrusted to a board of ten directors, appointed by the hospital corporation.

The building is numbered 1715 Fifteenth street northwest. It consists of two stories and basement, the main building fronting 65 feet, with two wings extending toward the rear of the lot.

The building is estimated at \$25,000, and the grounds upon which it stands and surrounding it, \$38,000.

The building could accommodate 50 infants, but other provision would have to be made in part for attendants, and for furniture and other equipments.

The hospital received 44 children during the year.

The receipts and expenditures were:

Receipts from District of Columbia appropriations.....	\$7,000.00
Receipts from other sources.....	1,665.05
Expenditures	8,665.05
	8,665.05

Commissioners' estimate for 1890: Maintenance, \$7,000, as a like sum appropriated last year seems to have been expended.

Detailed statements of receipts and expenditures and other operations are contained in Appendix H 11.

ST. ROSE INDUSTRIAL SCHOOL.

The object of this institution is the instruction of young orphan girls in habits of useful industry, with the view of fitting them for honorable self-support after leaving the school.

It is under the management of Sisters of Charity.

The building is situated on G street, between Twentieth and Twenty-first streets, northwest, and, with appurtenant grounds, is valued at about \$43,000. It will accommodate when fully equipped about 100 girls.

The number received during last fiscal year was 15. The number at present in the institution is 75.

No detailed statement of receipts and expenditures has been submitted.

The officers of this institution ask for no appropriation for maintenance for 1890. (See L. S. 37,900 C. O.)

NATIONAL HOMEOPATHIC HOSPITAL.

This institution was incorporated under the general incorporation law of the District.

Its affairs are managed by a board of trustees elected by the association.

The hospital building is located at the corner of Second and N streets, northwest, and is valued at about \$75,000. The building has a capacity to accommodate 40 patients.

The president reports 116 patients received during this year in the hospital, a daily average of 15, and 1,467 dispensary patients, a daily average of 18.

The receipts and expenditures were:

Receipts from appropriations	\$3,000.00
Receipts from other sources	6,270.43
	9,270.43
Expenditures	9,208.10
Unexpended	62.33

A detailed statement of receipts and expenditures is contained in Appendix H 12.

Estimate for 1890, submitted by officers of hospital:

Improvements	\$25,000.00
Maintenance	10,000.00

The Commissioners do not feel justified in recommending more than \$5,000 for maintenance, and must leave the estimate for buildings entirely to Congress.

ASSOCIATION FOR WORKS OF MERCY.

This association is designed for the performance of works of mercy of a reformatory and preventive character.

It is chartered under the general incorporation act of the District. (Liber 3, fol. 375, etc.) It is managed and controlled by a board of trustees elected by the association.

The association owns and maintains premises No. 2408 K street, northwest, as a home for fallen women, known as the "House of Mercy."

The property is valued at \$15,500. It has a capacity for 20 inmates. The number received during the year 1887 was 18. The daily average of inmates was 12.

A detailed statement of receipts and expenditures is contained in Appendix H 13.

Receipts and expenditures.

Receipts from appropriations	\$3,600.00
Receipts from other sources	2,184.58
	6,184.58
Expenditures	5,888.35
Balance unexpended	290.23

Estimates by officers of institution.

To purchase lot	3,000.00
Maintenance	2,500.00
Repairs	500.00
	6,000.00

The Commissioners make no estimate of their own in this case, but submit the estimate made by the officers of the institution.

NATIONAL TEMPERANCE HOME.

The object of this organization is to furnish a resort for soldiers, sailors, and other strangers, as a place of temporary shelter, and as a protection from the temptation of bar-rooms and other places of evil influence and associations.

The number accommodated from July 1 to October 31, 1888, was as follows:

Without charge	122
With charge	186
	308
Meals furnished free	756
Meals paid for	1,158
	1,914
Lodgings furnished free	426
Lodgings paid for	537
	963
Receipts	
Expenditures	\$1,250.00
	1,123.51
	126.49

The officers of the association estimate that a like amount to that appropriated for the current year, namely, \$2,500, will meet their necessities next year.

As this association has been in operation but six months, the Commissioners are unable to make an estimate for it for 1890.

Details of doings are shown in Appendix H 14.

CENTRAL DISPENSARY.

The object of this institution is to temporarily care for and furnish medical and surgical treatment to such sick or injured persons as may apply or be taken there.

Indigent patients are treated without charge. A report of the work of the institution is appended.

Receipts:	
Appropriations	\$12,250.00
From poor fund	2,400.00
Private sources	765.28
Balance on hand	549.87
	15,965.15
Expenditures	15,977.02
	11.87
Excess of expenditures	

Upon their personal knowledge of the value of the work done by this organization, the Commissioners estimate it should receive \$3,000 for 1890. Details contained in Appendix H 15.

WATER SUPPLY.

The general condition of the water supply has not materially changed during the year. The Commissioners have endeavored to make the limited quantity furnished go as far as possible. The extravagant use of water goes on much as in previous years, except that a slight improvement seems to be observable in the night consumption.

In considering the question of waste of water, it must be remembered that the Commissioners have no jurisdiction over the supply to the establishments of the United States Government. A fact which makes the matter worse is that no single authority can deal with the subject, the use of water in each building or establishment of this class being entirely under the control of the officer in charge. The Commissioners are thus not only powerless to check any waste in these buildings, but are left without the information absolutely essential to a proper system of distribution.

It is therefore urgently recommended that Congress place the control of the water supply to all the Federal establishments under some one officer of the United States. It is not the desire of the Commissioners to hamper the establishments in question in a full use of the water which the General Government has provided, but they merely ask that water which is not needed for any useful purpose may not be permitted to flow idly to waste, but may be secured for sections of the city which are in need of it.

Decided steps have been taken to prevent all waste in the establishments belonging to the District. Measures have also been taken to enforce the existing law concerning meters as far as possible without inflicting hardship.

Waste in private establishments, whether intentional or due to indifference, still continues on a large scale. The force of inspectors is kept busily employed in discovering and reporting these cases, and when necessary prosecuting them. Greater power to deal with this matter should be lodged with the Commissioners, so that every case of undoubted waste can be promptly followed by shutting off the water and not restoring it except upon the payment of a penalty. The method prescribed by the existing law, requiring prosecution in the police court, is slow and expensive, and by experience has been found of little practical benefit.

The most important changes effected during the past year have been in connection with the high service of Washington and Georgetown, in which, by the duplication of plant, the higher elevations are no longer dependent for their supply upon the endurance of a single pump. The machinery at the U-street station has been almost wholly renewed during the year. Two new pumping-engines, each of a daily capacity of 2,500,000 gallons, have been erected, with new boilers and appliances for saving fuel. The effect of this improvement has been to almost eliminate complaints from the high-service district of Washington. The old pumping-engine has been removed from the U-street station to Georgetown, and erected there. The latter station has also been provided with new boilers. This station, which was in a very dilapidated condition, has been largely improved during the year. With the improved plant in use a considerable saving of fuel is observable at both pumping-stations.

The laying of service water-mains is still dependent upon the securing of a petition signed by the owners of a majority of the real estate benefited. The existing law leads to great injustice and hardship in many cases, and should be replaced by legislation giving the Commis-

sioners authority to lay mains and order the assessment of the water-main tax as in their discretion may best meet the needs of the public service.

The existing system of mains is in need of some changes, and a beginning could with advantage be made in laying large mains to facilitate an equitable distribution of the new supply when turned on, but the charges against the water fund for interest and sinking fund are so great as to forbid any expenditure in these directions for the present.

It would greatly add to the efficiency of the water department if some legislation could be obtained which would materially reduce the fixed annual charges against the water fund.

The public hydrants continue to be a costly burden to the water department. Such legislation is recommended as will place the expense of erecting and maintaining these institutions of charity either upon the families supplied or upon the general fund of the District. The water fund now bears the full cost of the hydrants, which is considerable.

In deference to a general sentiment for the abolition of water rent for domestic purposes, and in view of the exceptional financial condition of the District, and in recognition of the fact that the only requirement of law on the subject is that the distribution of Potomac water to the citizens of the cities of Washington and Georgetown should not involve any expense upon the United States Government, the Commissioners have prepared and submitted to Congress, with favorable recommendations, a bill to abolish said rates.

A charge for water used for business purposes will still be adhered to, and it is believed that upon the adoption of some fixed rate, based upon the quantity of water actually used, the amount collected will be sufficient to pay the interest and sinking fund falling due annually on the water debt. The practical effect of the proposed legislation will be the merging of the funds collected from water rents, etc., with that of the general revenues, and the consequent defrayment of all expenses of the water department out of the general fund of the District, without any burdensome result or the curtailment of appropriation for needed improvements.

Full details of the operations of this department will be found in the report of Captain Lusk.

SEWERAGE.

The appropriations for the fiscal year 1888 proved inadequate to the demands upon them, and many cases needing attention had to be postponed to the current year. Full details of all work done are given in the report of Capt. James L. Lusk, assistant to Engineer Commissioner.

It may be said in this connection that existing laws should be changed so as to allow work of this class to be done by contract or otherwise, as the Commissioners may decide to be the most economical and advantageous to the District. It is doubtful whether, under the extreme competition now prevailing, the contract system is to be relied upon for underground or other work requiring great thoroughness of construction.

The appropriation recommended for cleaning and repairing sewers and basins for 1890 is \$35,000, the same as that for the current year. For replacing obstructed sewers \$15,000 is asked, an increase of \$5,000 over the appropriation for this year. Many of the older sewers will have to be replaced on account of defective grade and because the roots of trees have penetrated through open joints and filled the pipes.

For main and pipe sewers \$150,000 is estimated. A large part of this is for sewers to relieve existing ones which are overcharged by gorging and backing up the water into cellars and basements. The whole amount can be advantageously expended on work that should not be deferred.

From the current appropriation for permit work \$25,000 has been allotted to the construction of sewers. This appropriation allows many urgent cases to be reached which would otherwise have to wait for long periods. The appropriation for permit work for 1890 should be large enough to bear an allotment of \$30,000 for the construction of sewers under this system.

Under the current appropriation of \$5,000 for the preparation of plans for sewage disposal, considerable work has been done, but owing to the late period at which the funds became available, and the great amount of work to be done, it is hardly probable that the plan can be completed during the year.

Full details of the operations of this department are given in the report of Captain Lusk.

STREET IMPROVEMENTS.

The last appropriation act contained the names of streets to be improved, and as sufficient funds were not appropriated to improve all the streets mentioned, the expenditure was left to the discretion of the Commissioners within the limits of the streets named in the act. The Commissioners have accordingly selected the streets to be improved after very careful and thorough consideration, and all streets named in the act the improvement of which was not undertaken (with one exception) have been recommended for improvement in the schedule submitted this year to Congress.

The schedule submitted is appended to this report, and the appropriation of the sum of \$1,079,804, required to carry out these improvements, is earnestly recommended. This expenditure is required by the rapidly increasing needs of the cities of Washington and Georgetown, and is justified by the revenues of the District. The report of Captain Symons gives full details concerning the expenditures of the current year and the methods of improvement followed.

STREET PAVING.

The appropriation act for the last year limits the price to be paid for concrete or asphalt pavements to \$2 per square yard. It is recommended that this limit be hereafter omitted, as in some parts of the city where the traffic is heavy a suitable pavement can not be laid at this price. Details with regard to street paving are given in the report of Captain Symons.

STREET-LIGHTING.

The number of gas-lamps in service at the end of the fiscal year was 4,710. The number of new lamps lighted during the year was 307. In some places where gas-mains are not yet laid oil-lamps have been temporarily employed.

The use of electric arc lights for public illuminating has been considerably extended. The number of such lights is 183, of which 56 are now maintained by underground conductors. Arrangements have

been made to operate 32 lamps on the north side of Pennsylvania avenue in the same way.

The Commissioners consider it practicable to maintain all electric arc lamps necessary for public lighting by underground conductors, and they are of the opinion that all overhead conductors for maintaining such lamps within city limits should be prohibited after reasonable notice.

INSPECTOR OF GAS AND METERS.

The duties of the office of the inspector of gas and meters have been performed efficiently by the present incumbent. His annual report contains much detailed information, showing that the average purity and pressure of gas has been maintained throughout the year.

THE PARKING COMMISSION.

The whole number of trees planted by the parking commission since its organization in 1871 is 64,920; of this number 2,633 were planted during the past fiscal year. The care of so large a number of trees at so small a cost is a commentary upon the intelligence and wisdom displayed by that commission.

Tree planting has also been extended beyond the city limits of Georgetown and Washington.

The gradual removal of the unsightly wooden tree-boxes and the substitution of wire netting as means of protection is cheap, economical, and effectual.

The estimate for the parking commission is increased in order that it may be better enabled to meet the demands which it is called upon to fulfill, and it is hoped that the increase asked for may be granted.

PERMIT SYSTEM.

The paving of alleys, the repair and replacement of sidewalks and the laying of minor sewers are provided for under the appropriation for permit work, and this system has proved in practice very advantageous to residents and to the District. The sidewalks of the District are unsatisfactory both in character and condition, and with a view to their repair and to their gradual replacement by footways of better construction and materials, the Commissioners recommend a large increase in the permit appropriation.

EXTENSION OF STREETS AND AVENUES.

During the last session of Congress a law was passed (approved August 27, 1888) giving the Commissioners power to make regulations in regard to subdivisions of property, and requiring that all future subdivisions of property without the limits of the cities of Washington and Georgetown shall conform with the general plan of the city of Washington. This is an important law, and will be very far-reaching and beneficial in its results. It will prevent in the future any more subdivisions like Le Droit Park, Meridian Hill, Mount Pleasant, etc., being laid off, apparently almost at random, and without any reference to adjoining property and the proper extension of the city.

But legislation is greatly needed to rectify the harm which has been done in the regions directly north of the city by irregular and ill-considered subdivisions.

A bill was introduced at the last session of Congress having for its object the reclamation of these regions, as far as practicable, from the state of uncertainty into which they have fallen. This is a measure of great importance to the District. It is of the highest importance that action in this matter should not be deferred, as it will become more costly every year to make the necessary rectifications owing to improvements made and advance in values; and under present conditions there is a cloud upon the whole region which tends to discourage improvements and which works a hardship and injustice upon owners of property.

The only new streets which are recommended for extension are Pennsylvania avenue extended, from the end of the new Eastern Branch bridge eastward to the District line, and N street west extended to the junction of the Conduit and Foxhall roads.

Both of these are roads which will be of great convenience to the traveling public.

SURVEY OF THE DISTRICT.

This work is progressing rapidly under the existing appropriation of \$10,000. Three parties are in the field, and a fourth will be added about January 1, 1889. It is believed that the work can be completed on the present basis with one annual appropriation of \$10,000, and it is recommended for 1890.

SUBDIVISION OF LAND.

The act of Congress approved August 27, 1888, regulating the subdivision of land within the District of Columbia, authorizes and directs the Commissioners to make and publish general orders to regulate the platting and subdivision of lands and grounds. Such orders are now in course of preparation and will be ready for publication at an early day.

BRIDGES.

The bridges under the control of the Commissioners have been kept in as good a state of repair as their character will admit. The new iron bridge erected in place of the old Aqueduct Bridge has been transferred and is now in the custody of the Commissioners. The work on the bridge now in course of construction across Rock Creek on the Woodley Lane road is progressing, and when completed it will be a creditable and much needed structure.

A number of wooden bridges in the District of Columbia should be replaced by iron structures as rapidly as the means at the hands of the Commissioners will allow, before they reach such a stage as to render them dangerous to travel.

STEAM RAILROADS.

The question of steam railroads is still unsolved. The Commissioners desire to call attention to the unsettled condition of affairs in this connection. Recommendations have been made by them touching upon this subject, and they desire to invite attention to their report of November 15, 1887, addressed to the United States Senate.

It is respectfully urged that some effectual means of adjustment of this vexed question may be had at an early day.

STREET RAILWAYS.

The Commissioners renew the recommendation made in the last annual report, that the street-railway companies be required to abandon the use of cobble-stones for paving, and provide proper rails and a proper pavement between them. During the past year the Eckington and Soldiers' Home Railway Company has laid its track with heavy grooved rails on New York avenue, and between Seventh street and New Jersey avenue the street is paved from curb to curb with a smooth sheet pavement. The vast superiority of this method of construction over those employed by the older street railways is apparent upon the slightest inspection.

The Eckington and Soldiers' Home Railway, which is now in active operation, is notable as being the first electric railway established in the District. It was constructed under authority of an act of Congress approved July 19, 1888, which act gave the Commissioners no control over its electrical arrangements. Serious objections were entertained to the establishment of any system operated by overhead wires, as they were considered dangerous by many persons not well informed with regard to electrical matters. The Commissioners were, however, instructed by their legal advisers that under the law they had no power to interfere.

The road, however, appears to be a great success. Its construction and its appointments are of the best character, and it is presumed that the removal of the wires and the substitution of horse-power for electricity would not now be regarded with favor.

INSPECTOR OF ASPHALT AND CEMENTS.

This officer does all the testing and analyzing of the construction material used by the District, analyzes the water from suspected wells and from the mains, tests oils and food-products when required, and, in general, acts as chemist to the District, his time being constantly employed on useful and important work. With the current appropriation of \$1,000 the laboratory has been put in good working condition. For general and current expenses an appropriation is recommended of \$500.

BOARD OF EXAMINERS OF STEAM ENGINEERS.

Under the act of February 28, 1837, the board of examiners of steam engineers have performed their duties up to the present time without compensation. The Commissioners have therefore submitted an item, with their estimates, for compensation for this board and for contingent expenses, which will enable them to secure the necessary articles of stationery, etc., and properly record their transactions.

The Commissioners beg leave to invite attention to their recommendation for the amendment of this law to enable the board to enforce the same when its requirements are not complied with. The duties performed by this board have been of great value to the community, and by the adoption of the amendment as proposed much more may be accomplished.

ROCK CREEK TUNNEL.

The attention of Congress is again invited to the project for the construction of a tunnel in the valley of Rock Creek, between Lyou's mill and Pennsylvania avenue, which was recommended in the last annual

report, and which was again recommended by the Commissioners in letters to the committees on the District of Columbia of the Senate and House of Representatives on April 18, 1888. The work proposed is of great importance to perfect the communication between the cities of Washington and Georgetown, and in a sanitary point of view, and the revenues of the District justify the necessary expenditure.

UNDERGROUND WIRES.

The last appropriation act contained a provision requiring the Commissioners to investigate and report to Congress concerning the subject of placing under ground all the electric wires in the city of Washington. A full special report upon this subject has been prepared, under the direction of the Commissioners, and will be submitted to Congress at an early day.

DISTRICT ELECTRICIAN.

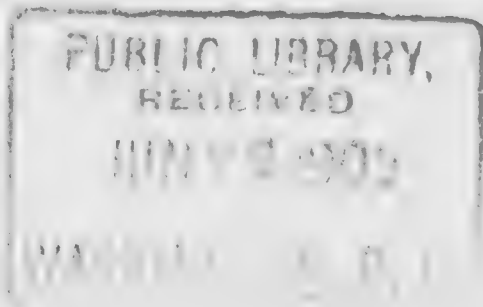
The rapid increase in the number of electric wires erected in the District, and the dangers incident to the employment of high-tension currents, render it imperatively necessary, in the interest of public comfort and safety, that these electrical systems should be under some intelligent control. Accordingly, the Commissioners have recommended that they be empowered to make and enforce such regulations for the construction, maintenance, and operation of apparatus for electrical purposes as they may deem advisable; and that provision be made for a District electrician to assist the Commissioners in preparing such regulations, and in carrying them into effect.

Very respectfully,

WILLIAM B. WEBB,
SAM'L E. WHEATLEY,
CHAS. W. RAYMOND,

Commissioners of the District of Columbia.

H. Ex. 1, pt. 6—3



A.

ORDERS.

OFFICE OF THE COMMISSIONERS,
DISTRICT OF COLUMBIA,
Washington, July 6, 1887.

Ordered, That a committee consisting of Commissioners Wheatley and Ludlow is hereby appointed to prepare and report to the Board rules and regulations for the guidance of the officers and employés of the District of Columbia.

JULY 7, 1887.

Ordered. That the order of May 14, 1883, fixing the hours during which pavement or street washers or hand-hose may be used is hereby amended so that hereafter the use of water for those purposes will be permitted between the hours of 5 and 6 a. m. and 7 and 8 p. m., and at no other times, under the penalties prescribed in said order.

Ordered (6), That the Washington and Georgetown Railroad Company be required to change the location of its tracks at the northwest corner of the intersection of Pennsylvania avenue, at Washington Circle, as indicated on diagram with L. R. 138608, C. O.

JULY 11, 1887.

Ordered, The fire limits are hereby extended to include the following-described additional area, viz: Beginning at the intersection of Boundary and Eleventh street east, thence along Boundary to its intersection with Fifteenth street east, thence south along Fifteenth street to its intersection with Georgia avenue, thence along said avenue to its intersection with Eleventh street east, thence south along said Eleventh street to O street south, thence along O street to Ninth street east, thence along Ninth street to M street south, thence west along M street to the west bank of the James Creek Canal, thence along said canal to P street south, thence along P street to Water street, thence along Water street to I street south.

Ordered, The following regulations are made for the conduct of the public business at the offices of the District:

(1) The regular office hours are from 9 a. m. to 4 p. m., except on Saturdays, when they are from 9 a. m. to 3 p. m., with an allowable recess of thirty minutes between 12 m. and 1 p. m., the absences being so regulated as not to interfere with the transaction of public business. All employés whose official duties do not call them elsewhere will attend punctually and remain until the office is closed, and any tardiness in attendance or failure of diligent employment or unauthorized absence

during business hours will be daily reported by those in charge of the respective offices to the secretary of the Board of Commissioners.

(2) All employés are required to wear their coats and be otherwise suitably attired while on duty, and the making or receiving of personal visits, reading of books and newspapers, smoking, and unnecessary conversation are prohibited during business hours.

(3) All employés will be allowed 30 days' leave of absence during the year at such times as may be recommended in writing by the heads of offices and be approved by the Commissioners, and any absence in excess of the allowance, except for illness, must be without pay. In case of absence due to illness the absentee must submit a statement of the facts, accompanied by the indorsement of a reputable physician, stating that it incapacitates him from doing duty, through the head of the offices to the secretary of the Board.

(4) Heads of offices will submit to the secretary, on the 1st of every month, a statement of absences during the previous month, and any misconduct, carelessness, inefficiency, or unauthorized absence will be reported at once to the secretary.

(5) To prevent interference with the public business, no persons other than authorized District employés will be admitted into any room of the District building which bears the sign "No admittance."

(6) Persons not employés of the District will not be admitted into the District building after 3 p. m. without an order from one of the Commissioners or the head of a department or division, and employés will not be admitted after office hours except upon public business, and then only by authority as above.

(7) Persons having business with any office must apply to the head thereof.

(8) Information in regard to official matters is not to be communicated to persons other than those connected therewith, and the discussion of official matters in the newspapers by subordinate officials is prohibited.

(9) In all cases when practicable, current business will be concluded on the day of its receipt, and if final action is necessarily deferred, the receipt of the communication will be at once acknowledged, with a brief statement of the disposition made of it.

(10) All original papers of every sort must be carefully preserved and pass out of the custody of the proper officer only upon a written order from one of the Commissioners, in which case a memorandum receipt must be taken, showing in whose hands it is and a brief of its contents.

(11) No copies of papers will be furnished except upon written order of one of the Commissioners, and if such papers relate to suits or accounts in which the District is or may be interested the applicant therefor must file with his written application an affidavit showing the necessity for such copies, and the specific information desired.

(12) The fixing of unauthorized signs, notices, writings, and inscriptions of any sort upon the walls or doors of the District Building are prohibited.

(13) Loud talking, whistling, and unnecessary noise of any sort, begging, peddling, canvassing, and soliciting contributions or subscriptions are prohibited.

(14) The secretary of the Board will have plainly-printed copies of this order posted in every office in the building, and all employés will be held to a strict observance thereof.

(15) The rules will be rigidly enforced, and the heads of offices are specially charged with the duty of promptly correcting and reporting to the secretary any violation of them.

JULY 14, 1887.

Ordered. That the police regulations in and for the District of Columbia adopted by the Commissioners on the 15th day of June, A. D. 1887, be, and the same are hereby, modified as follows, viz:

In section 2 of article 5 strike out in line 4 of the proviso after the word "agreement" the words "not, however, at a rate to exceed one dollar and fifty cents for the first hour and twenty-five cents for every additional quarter of an hour."

Insert after the words "city street," in section 1 of article 6, the words "except as hereinafter designated." Strike from said section the words "without a permit previously obtained from the major of police designating the route and time of driving."

Substitute for the word "midnight," in the said section, the words "ten o'clock p. m." Insert after the word "drove," in the said section, the words "of beeves." Strike from the said section after the word "fifteen" the words "beeves, or thirty sheep, swine, or other cattle," and insert between the words "nor" and "follow" in the said section the words "shall any herd."

Section 2 of article 6 substitute for the word "such" the word "city."

In section 4 of article 6 insert after word "driven" the words "or conducted."

In section 4 of article 8 substitute for the words "thirty minutes" the words "one hour."

In section 1 of article 9 strike out the words "on the secular days of the week." Insert after the words "may contrive to use the," in said section, the words "starting gongs or," and strike from the said section the words "when in motion after sundown and at all times."

In section 3 of article 10 insert after the words "as to be" the word "readily," and substitute for the words "by the revolution of a wheel or wheels," in the said section, the words "to warn persons of their approach."

In section 8 of article 10 insert after the words "sunset and sunrise" the words "except drays, dump-carts, hay-wagons, trucks, and similar slow-moving freight vehicles." Strike from the said section the words "on both sides thereof," and substitute for the words "sides and rear," at the end of the said section, the words "and both sides thereof."

In section 15 of article 10 strike out from line 6 the word "thereof," and insert the words "of such steam car, train, or engine."

(2) That the foregoing modifications be printed in the Evening Star, the Evening Critic, the National Republican, and the Washington Post, daily newspapers published in the city of Washington, in said District, on the 15th day of July, A. D. 1887.

(3) The heads of departments, divisions, and bureaus of the District service are directed to prepare and submit for the information of the Commissioners, on or before the 1st of August, proximo, the following:

First. A schedule of the personnel of each department, division, and bureau, giving the names, designation, duties, pay, and status of all employés, whether permanent or temporary, detailed or assigned, with a statement of where and how employed and the appropriation from which paid.

Second. Recommendations with regard to the current methods of transacting public business, stating in what respect the present system is defective, and suggesting such modifications thereof as shall improve its efficiency and render it more direct and economical.

Third. Recommendations as to the number of employés absolutely

necessary in each office, reporting what additions are needful, if any, and what employés can be dispensed with.

Fourth. Specific recommendations as to the qualifications, conduct, and efficiency of individual employés. The Commissioners desire to eliminate from the service all persons whose services are not absolutely necessary, or who, by reason of personal characteristics of any kind—physical, mental, or moral—fail to discharge with entire satisfaction the duties allotted to them.

The Commissioners expect that the recommendations of the heads of departments, divisions, and bureaus will be thoroughly considered, solely in the public interest, irrespective of all personal considerations of whatsoever nature, and in this connection a revised schedule will be submitted making a comparative exhibit of the employés in each class according to their general efficiency.

July 16, 1887.

Ordered, Inasmuch as the side track from the Metropolitan Branch of the Baltimore and Ohio Railroad, from I street into square No. 713, crosses L street north in violation of law, the permit heretofore granted to John Miller, under date of October 15, 1884, to lay a side track in the vicinity of square 713 is hereby revoked, and the track now laid be entirely removed within twenty days.

July 18, 1887.

Ordered, The Commissioners having learned that a dangerous communicable disease prevails among domestic animals in the vicinity of the District, which by contagion or transportation may affect the general health and safety, the Commissioners, in pursuance of the provisions of section 8 of the act approved May 29, 1884, order the following measures for the prompt suppression of the same:

(1) Upon the recommendation of the Commissioner of Agriculture, the Chief of the Bureau of Animal Industry in the U. S. Department of Agriculture is hereby authorized and empowered to act as veterinarian for the District of Columbia, for the purposes named in the act above quoted.

(2) So much of the rules and regulations prepared by the Commissioner of Agriculture in accordance with the requirements of the act aforesaid, and published under date of April 15, 1887, as are applicable to the District of Columbia are hereby approved and adopted by the Commissioners as regulations for the District: *Provided*, That wherever said regulations require report to and action by the Commissioner of Agriculture, the chief of the Bureau of Animal Industry, acting as veterinarian for the District, shall submit the requisite reports and recommendations for the consideration of and action by the Commissioners of the District of Columbia.

(3) The legally appointed agents and inspectors of the Bureau of Animal Industry are hereby empowered, under the direction of the chief of the Bureau, to discharge corresponding duties for the District of Columbia, and all citizens of the District are hereby directed and required to recognize and respect the said chief of the Bureau and his duly appointed agents as lawful officers of the District.

(4) The said chief of the Bureau and his agents are authorized to inspect any premises in the District of Columbia where it is believed

there exists any contagious, infectious, or communicable disease among any domestic animals, and, if found needful, to order the temporary quarantine of said animals, to cause premises to be disinfected, and, if necessary, to condemn the animals to be killed in order to prevent the spread of disease.

(5) The proceedings for the appraisal of the value of animals condemned to be killed shall be had under the provisions of section 8 of the regulations.

(6) The chief of the Bureau aforesaid, acting as veterinarian for the District, shall make to the Commissioners monthly reports of all matters relating to the subject of this order, within the District of Columbia, and, in addition thereto, special reports and recommendations as often as shall be needful for the information of the Commissioners to enable them to carry into effect the provisions of the law.

JULY 20, 1887.

Ordered, That the order of May 14, 1887, in reference to paving or repairing railway tracks at street intersections, be amended by adding the following clause to section 1:

Provided, That granite blocks may be laid between rails and asphalt blocks between tracks at such intersections.

JULY 22, 1887.

Ordered, Permission is hereby given to the United States Electric Lighting Company to lay, under the supervision of the engineer department, District of Columbia, an underground conduit on Ninth street from G street to C street northwest, and one on Thirteenth street from G to E street northwest, as per map and detailed description of route on file in said department.

JULY 23, 1887.

Ordered, The police regulations in and for the District of Columbia adopted by the Commissioners on the 15th day of June, A. D. 1887, are hereby modified as follows, viz:

Section 1 of article 1 is amended by striking out all between the word "times," in line 16 thereof, and the word "be," in line 17; also by striking out the word "open," in line 17, and substituting therefor the word "subject."

Section 2 of article 1 is amended by inserting after the word "thereon," in line 13 thereof, the words "and description of the person making the pledge," and by striking out all after the word "thereon," in line 13, down to the word "such," in line 15.

Section 4 of article 1 is amended by striking out all between the word "time," in line 4, and the word "any," in line 5.

Section 2 of article 2 is amended by striking out all of said section after the word "Fahrenheit," in the sixth line thereof, and by the addition of the following:

"Inspections shall be made by the fire marshal of the District of Columbia by such methods as shall be approved by the Commissioners of said District: *Provided*, That nothing in this section shall be construed to prohibit the sale of gasoline or the lighter products of coal oil, sold as such for street, lawn, or market-house illumination, or for industrial uses: *And provided further*, That oils of lower grade than those above prescribed, intended solely for export sale beyond the limits of the District, and oils of

the prescribed standard grade, intended for local sale and consumption, may be stored in larger quantities than five hundred gallons in such localities as may be authorized by the Commissioners, upon due application for license, under such special conditions as they shall impose with regard to the construction of buildings and tanks and the method of storing and handling."

Section 7 of article 2 is repealed.

Section 8 thereof is designated section 7.

That the schedule of charges for hack service embraced in section 2 of article 5 is hereby modified by the addition of the following: *And provided further*, That hacks engaged upon the street drawn by two horses, and with seats for four passengers, may charge by the hour at rates not to exceed \$1.50 for the first hour and 25 cents for each additional one-quarter hour.

That section 11 of article 10 is hereby modified by the addition of the words "the free passage way of any street or avenue" after the word "obstruct" in the first line thereof.

(2) That the foregoing modifications be printed in the Evening Star and the Evening Critic, daily newspapers published in the city of Washington, in said District, on the 23d day of July, 1887.

Ordered. 2. That permission is hereby given to the United States Electric Lighting Company to set iron posts at the following locations, for the support of electric lights to be used in illuminating Seventh street from Pennsylvania avenue to P street northwest, viz, 1 at southeast corner Pennsylvania avenue and Seventh street, 1 at corner of Louisiana avenue and Seventh street, 1 at northeast corner Louisiana avenue and Seventh street, 1 at southeast corner Seventh and D streets, 1 100 feet north of D street, 1 250 feet north of D street, 1 at northeast corner of Seventh and E streets, 1 in center of block between E and F streets, 1 at southeast corner of Seventh and F streets, 1 in center of block on Seventh, between F and G streets, 1 at southeast corner Seventh and G streets, 1 150 feet north from corner of G street, 1 250 feet north of corner of G street, 1 at southeast corner Seventh and H streets, 1 in center of block between H and I streets, 1 at southeast corner Seventh and I streets, 1 145 feet north of I street, 1 285 feet north of I street, 1 at corner Seventh and Massachusetts avenue, 1 at northeast corner Seventh and K streets, 1 at northeast corner of Seventh and New York avenue, 1 in center of block between New York avenue and L street, 1 at northeast corner of Seventh and L streets, 1 in center of block between L and M streets, 1 at southeast corner of Seventh and M streets, 1 100 feet north of M street, 1 250 feet north of M street, 1 at northeast corner of Seventh and N streets, 1 in center of block between N and O streets, 1 at southeast corner Seventh and O streets, and 1 in center of block between O and P streets, a total of 31.

Also permission to replace all the present poles on Seventh street with new poles similar to those used in the electric-lighting plant on Chestnut street, Philadelphia, Pa.

Also permission to replace 17 poles on E street, between Tenth and Fourteenth streets, northwest; also to remove 8 poles from said line, and 2 poles from the line on Fifteenth street, between F and G streets; also to replace 3 poles on Twelfth street near E street with larger iron poles; all of the foregoing subject to such conditions as the engineer department may prescribe.

AUGUST 9, 1887.

Ordered, Temporary permission is hereby given to United States Electric Lighting Company to run insulated wires and erect necessary

iron posts on G street from Seventh to east side of Fifth street, northwest, the work to be subject to the supervision of the engineer department, and the permit to revocation at the pleasure of the Commissioners.

AUGUST 13, 1887.

Ordered, The police regulations in and for the District of Columbia are hereby modified as follows:

Section 3 of article 2 is hereby modified by striking out all of said section after the first word "for," in the seventeenth line thereof.

Section 6 of article 2 is hereby modified by adding after the word "them," in the second line thereof, the words "in excess of one barrel," and by striking out all after the second word "floor," in the fourth line thereof, to the word "and," in the eighth line thereof.

Section 2 of article 5 is modified by adding after the fifth provision therein the words "and provided further, that a two-horse hack, as above, shall not be required to take less than two passengers."

Section 1 of article 6 is hereby modified by adding the word "improved" after the word "any," in the second line thereof.

Section 4 of article 6 is hereby modified by adding the word "improved," after the word "only," in the first line thereof, and by striking out all between the word "south," in the fifth line thereof, and the word "in," in the seventh line thereof.

Section 8 of article 10 is hereby modified by adding the word "public" after the word "all," and adding the words "for the transportation of passengers" after the word "vehicles," in the first line thereof, and by striking out all after the word "sunrise," in first line thereof, down to and including the word "vehicles."

Section 9 of article 10 is hereby amended by striking out the words "nor any projection," in the second line thereof, and adding the word "projecting" after the word "thereof," in said line.

AUGUST 18, 1887.

Ordered, Section 15 of article 10 of the police regulations in and for the District of Columbia is hereby modified by striking out the word "six," in the second line thereof, and inserting in lieu thereof the word "twelve."

Whereas the Baltimore and Ohio Railroad Company is operating a "Y" or connecting track between the Washington and Metropolitan branches of said railway, approximately upon the line of I street west, between First and Second streets east; and

Whereas section 4 of the act of March 3, 1835, authorizing the construction of minor branches, requires the assent of the corporate authorities thereto, and the authority to occupy and operate the said "Y" is now exercised by the company under and by virtue of a "permit" issued by the board of public works, under date of May 16, 1873, said permit being in terms subject to revocation by the constituted authorities; and

Whereas the use of said "Y" for the passage of frequent trains, at high rates of speed, has been the subject of repeated complaints from occupants of adjacent premises, and has been attended by accidents involving loss of life and destruction of property, which the company is apparently unable to prevent; and

Whereas it does not appear that the continued use of said "Y" is in any wise indispensable to the transportation either of passengers or

freight, with the exception only of through freights, in long trains, that can not be handled at the present time on the main lines without serious inconvenience and increased danger and embarrassment to the passenger and other traffic: It is therefore

Ordered, (2) That the Baltimore and Ohio Railroad Company at once terminate the use of said "Y" for the passage of all trains, cars, engines, and other current traffic of whatsoever nature save and except only the transfer between the Washington and Metropolitan branches of through freight trains, in number not exceeding four each way daily, and that the rate of speed of said through trains upon the "Y" shall not exceed 6 miles per hour.

AUGUST 20, 1887.

Ordered, Section 6 of article 4 of the police regulations in and for the District of Columbia is hereby modified by striking out the words "No vehicle shall stand upon the east half of said portion of said street for a longer period than is necessary to permit its user to get in or out, nor when waiting to do so, except next the curb on the west side of said portion of said street or upon some other street."

AUGUST 23, 1887.

Ordered, Section 14 of the order of June 19, 1886, establishing rules and regulations for the fire department, District of Columbia, is hereby amended by striking out the word "engineer" in the fourth line thereof and inserting in lieu the words "assistant foreman."

AUGUST 31, 1887.

Ordered, That whenever sidewalks or footways are permitted to be constructed in alleys, the width of such footways is hereby regulated, as follows:

In alleys 30 or more feet in width, 5 feet; in alleys between 25 and 30 feet in width, 4 feet; in alleys between 20 and 25 feet in width, 3 feet; and that no footwalks shall be laid in alleys less than 20 feet wide, unless in exceptional cases, and then only on one side.

(2) That the amendment of April 23, 1887, to the plumbing regulations is hereby modified by changing the date for final registration of plumbers from August 31, 1887, to September 10, proximo, and after the latter date no permit shall be issued to plumbers who have not duly registered in accordance with section 5 of the plumbing regulations.

(3) That the work of repairing plumbers' cuts in the portion of streets for the pavement of which street railroads are responsible shall be performed by the District contractor or by the railroad company in interest, and the cost thereof shall be paid out of the plumbers' deposits.

SEPTEMBER 3, 1887.

Ordered, (3) That in accordance with an application made under date of July 30, 1887, by owners of property abutting upon the street in the northwest suburban section, provisionally designated as Garfield avenue, the name of said highway is hereby changed to Wyoming avenue.

SEPTEMBER 13, 1887.

Whereas, it appears from the records of this office that several of the present school trustees were appointed for terms of service which have expired, and that others were appointed for indefinite terms, and that said trustees are serving as such in the manner designated; and

Whereas, it seems best that the terms of such officers should be fixed and determinate, and that it would be best to arrange the terms of their service at this time, it is

Ordered, That all of the said school trustees are hereby removed from the offices held by them, and that the following are hereby appointed members of the board of school trustees, to hold office from this date for the terms affixed to their respective names:

James W. Whelpley, for a term of one year; A. H. Witmer, for a term of one year; Louis A. Cornish, for a term of one year; John W. Ross, for a term of two years; Joseph J. Darlington, for a term of two years; John R. Francis, for a term of two years; W. W. Curtis, for a term of three years; Ros. A. Fish, for a term of three years; James M. Gregory, for a term of three years.

(10) Permission is hereby given to Saint Ann's Church of Tennallytown, D. C., to occupy 25 feet square of the portion of the school-house lot immediately behind and contiguous to said church building, to be marked off by the engineer department, District of Columbia. This permit is given subject to revocation upon thirty days' notice.

SEPTEMBER 21, 1887.

Ordered, Complaint in writing having been made to the Commissioners, of distress and danger in a case of sickness to a resident in the vicinity of St. Stephen's Church, located on the southeast corner of Twenty-fifth street and Pennsylvania avenue northwest, caused by the ringing of the bell in the tower of said church building, the ringing of said bell is hereby prohibited until otherwise ordered, in pursuance of the provisions of section 1 of article 9 of the police regulations in and for the District of Columbia.

SEPTEMBER 23, 1887.

(2) That the seal of the District of Columbia, approved and legalized by act of legislative assembly of August 3, 1871, is hereby placed in the official charge and custody of the secretary of the Board of Commissioners of said District.

SEPTEMBER 28, 1887.

(3) Under the authority vested in the Commissioners of the District of Columbia by act of Congress approved June 10, 1879, the following modification is made in the schedule of annual water rates adopted March 29, 1887:

Photograph galleries shall be divided into three classes and be respectively charged \$20, \$15, and \$10 each, according to the relative extent of their general business.

OCTOBER 18, 1887.

Whereas section 435 of the Revised Statutes relating to the District of Columbia makes it unlawful "for any person or persons keeping an

ordinary, restaurant, saloon, or other place where spirituous liquors are sold within the District, to give, sell, or dispose of any intoxicating drinks without a license approved by the board of police, and no license shall be considered legal by any of the authorities having jurisdiction within the District until the same has been approved by the board of police and so certified by the secretary thereof under the official seal. That from and after the 1st day of July, 1878, the board of Metropolitan Police * * * shall be abolished and all the powers and duties now exercised by them shall be transferred to the said Commissioners of the District of Columbia, who shall have authority to employ such officers and agents and to adopt such provisions as may be necessary to carry into execution the powers and duties devolved upon them by this act." * * * Approved June 11, 1878.

NOVEMBER 9, 1887.

Ordered, Permission is hereby given to the United States Electric Lighting Company to lay an underground conduit on the south side of Pennsylvania avenue, from Fifteenth to Eighteenth streets, under the sidewalk; also branch conduit on Seventeenth street, from Pennsylvania avenue to H street northwest; also a conduit from corner of Thirteen-and-a-half and B streets northwest, along south side of B street, to Fourteenth street, thence on east side of Fourteenth street to a point opposite the Bureau of Engraving and Printing; thence across Fourteenth street west into said building. In each construction the conduit to be under the sidewalk, except when crossing streets.

NOVEMBER 10, 1887.

Whereas it has been deemed conducive to the public interests to cause to be opened a highway from the present terminus of Michigan avenue in a northeasterly direction, along the northern boundary of the Glenwood Cemetery land, to the junction of the Harewood and Bunker Hill roads; and

Whereas the needful preliminary proceedings have been taken as required by law; and

Whereas at the public hearing held on the 5th day of November, 1887, in pursuance of public advertisement, no objection was made to the opening of said highway; it is

Ordered, That the surveyor of the District make record of said avenue on the public plat of the District as laid down upon the plat now on file in the office of the Commissioners.

NOVEMBER 16, 1887.

Ordered, The United States Electric Light Company is hereby authorized to erect lamps, of the power of those now in use upon the following named streets, to wit:

On Pennsylvania avenue from Fifteenth street to Washington Circle, 18 lamps.

On Fourteenth street from Pennsylvania avenue to New York avenue, 4 lamps.

On Seventh street from P to Boundary streets, 10 lamps.

On New York avenue from Fourteenth to Fifteenth streets, 2 lamps.

All as shown upon the accompanying plan. Extension of Seventh street to be air lines, all others conduits.

The lamps and posts to be erected will be similar to those now in use on Seventh street, or such others as the Engineer Commissioner shall approve, and all arrangements to be subject to the inspection and approval of the Engineer Commissioner.

OCTOBER 23, 1887.

Ordered, That for the fiscal year ending June 30, 1888, and pursuant to the provisions of the act of Congress providing a permanent form of government for the District of Columbia, approved June 11, 1878, a tax be, and the same is hereby, levied of \$1.50 on every \$100 of real estate not exempted by law, except upon real property held and used exclusively for agricultural purposes without the limits of the cities of Washington and Georgetown, and so designated by the assessor in his annual return, the rate of which shall be \$1 on every \$100; and upon all personal property in the District of Columbia not taxable elsewhere, \$1.50 on every \$100, according to the cash valuation thereof.

The first half of said tax shall be due and payable on the 1st day of November, 1887, and the second half on the 1st day of May, 1888.

NOVEMBER 21, 1887.

Ordered, The order of August 31, 1887, in relation to the repairing of plumbers' cuts in the portion of streets for the pavement of which street railroads are responsible, is hereby modified by striking therefrom the words "or by the railroad company on interest," and by substituting therefor the words "or by the superintendent of streets."

NOVEMBER 22, 1887.

Whereas it has been deemed conducive to the public interests to cause to be opened a highway from the present terminus of North Capitol street from Boundary street to the northern boundary of a tract of land held by the trustees of Prospect Hill Cemetery Association, the same being a rectilinear prolongation of North Capitol street through the lands of the heirs of Emily Beale, Annie E. Barbour, and the trustees of the aforesaid association; and

Whereas the needful preliminary proceedings have been taken as required by law; and

Whereas at the public hearing held on the 11th day of November, 1887, in pursuance of public advertisement, no objection was made to the opening of said highway, it is

Ordered, That the surveyor of the District make record of such avenue on the public plat of the District as laid down upon the plat now on file in the office of the Commissioners.

NOVEMBER 28, 1887.

Ordered, That hereafter deposits to cover the cost of proper replacement of asphalt-block pavements will be required of plumbers making excavations in same, as in the case of sheet-asphaltum pavements.

DECEMBER 2, 1887.

Ordered, That permission be granted to the Baltimore United Oil Company, of Baltimore, Md., to construct a side track to their place of business in square 739 from the tracks of the Baltimore and Potomac Railroad on K street southeast; the work to be done in accordance with the instructions of the Engineer Commissioner, and on condition that the track will be hereafter raised or lowered or entirely removed as Congress may direct or the Commissioners deem expedient to the public interests.

DECEMBER 8, 1887.

Ordered, The order of April 23, 1885, establishing hack stands, is hereby modified, so as to read as follows:

Whereas the act of Congress approved June 11, 1878, entitled "An act providing a permanent form of government for the District of Columbia," confers on the Commissioners the power to locate the places where hacks shall stand, and change them as often as the public interests require, it is therefore

Ordered, That from and after this date the places hereinafter named be designated as the only places on the public streets where hacks shall stand.

(2) The following locations are designated as stands for one or two horse vehicles, but not more than one half of the number of vehicles authorized at each stand shall be of the kind drawn by two horses, viz:

On the west side of Fifteenth street northwest, immediately south of the entrance to the Executive Grounds, 10 vehicles.

On the west side of Fifteenth-and-one-half street northwest, immediately north of Pennsylvania avenue, 10 vehicles.

On the east side of Fourteenth street northwest, south of Pennsylvania avenue, 10 vehicles.

On the part of the space at the intersection of C street, Seventh street, and Louisiana avenue northwest, parallel with and contiguous to the eastern line of said Seventh street, such number and in such order as the superintendent of police may prescribe.

On the east side of New Jersey avenue, near the Baltimore and Ohio Railroad Company's depot, ten or more vehicles, at the discretion of the superintendent of police.

On the north side of New York avenue, a space 15 feet wide and extending 100 feet eastwardly from the east side of Seventh street west, 15 vehicles.

On the south side of D street, from Eleventh to Twelfth streets northwest, 6 vehicles.

On Sixth street, near the Baltimore and Potomac Company's depot, such number and in such order as the superintendent of police may prescribe.

On the east side of First street west, near the Peace Monument, 6 vehicles.

On the southeast corner of Third street and Pennsylvania avenue northwest, 6 vehicles.

On the southeast corner Four-and-a-half street and Pennsylvania avenue northwest, 6 vehicles.

(3) The following-described locations are designated as stands for one-horse vehicles, viz:

On the south side of Pennsylvania avenue, between Thirteenth and Thirteenth and one-half streets northwest, 5 vehicles;

On the north side of Louisiana avenue, east of Ninth street northwest, 5 vehicles.

On the north side of Louisiana avenue, between Fifth and Sixth streets northwest, 5 vehicles.

On the south side of B street northwest, west of the Baltimore and Potomac Railroad Company's depot, a number of vehicles at the discretion of the superintendent of police.

On I street northwest, at southwest corner of McPherson square, 8 vehicles.

On the east side of Seventeenth street northwest, immediately north of Pennsylvania avenue, 6 vehicles;

At Thomas Circle, 3 vehicles on the south side and 3 on the north side.

At Iowa Circle, 3 vehicles on the south side and 3 on the north side.

On the north side of M street northwest, between Connecticut avenue and Eighteenth street, 6 vehicles.

On the northeast side of Dupont Circle and P street, 6 vehicles.

On the southeast part of Washington Circle, 2 vehicles.

On the east and west side of Scott Circle, next to the street curb, each 2 vehicles.

(4) All hack-stands shall be clean and in proper order by the parties occupying the same.

The exact limit of each stand will be established under the directions of the superintendent of police of the District of Columbia.

The soliciting of fares upon the public streets and grounds by any licensed driver of a vehicle for the transportation of passengers for hire is positively prohibited.

All infractions of these regulations will subject the person or persons so offending to the penalties prescribed by law; and all regulations and orders locating places where hacks shall stand inconsistent herewith are hereby repealed.

DECEMBER 10, 1887.

Under the provisions of corporation act of May 1, 1865, designating November 1 and March 1 as dates within which it shall be unlawful to make street excavations without special permission, it is

Ordered, That between the above named dates all applications for permits to make excavations in the streets, including avenues, alleys, sidewalks, and parkings, shall be accompanied by special application upon the form prescribed by the Engineer Department, stating fully the circumstances in each case.

In the case of urgent repairs to sewers, water and gas pipes, where immediate action is needful, the permit clerk is authorized upon presentation of the regular and special applications to issue the necessary permit, recording his action thereon and forwarding the papers to the Engineer Commissioner.

In all other cases the applications submitted to the permit clerk will be forwarded to the Engineer Commissioner for consideration, and permit will only issue in case the circumstances are such as to justify the breaking of the street.

After January 1 permits will only be issued for necessary repairs, except in special cases which can not be anticipated either in practice or in making general order in relation thereto.

DECEMBER 27, 1887.

Ordered, (4) That permission is hereby given the Baltimore and Potomac Railroad Company to extend one of its side tracks on Canal street,

between New Jersey avenue and Second street southeast, 300 feet, to facilitate the construction of a siding into square 739 for the use of the Baltimore United Oil Company, as per plat with application of said railroad company. This permit is subject to revocation at pleasure of Commissioners.

JANUARY 11, 1888.

(2) That the order of April 25, 1887, fixing the charge for water furnished by meter at 10 cents per 1,000 gallons is hereby modified so that the rate for water so furnished shall hereafter be 5 cents per 1,000 gallons.

JANUARY 13, 1888.

Ordered, That all reports emanating from officials in charge of the several departments of the government of the District of Columbia requiring action by the board shall be addressed to the Commissioners of the District of Columbia and transmitted through the usual official channel to the Commissioner having charge of such department, and by him to the Board of Commissioners for consideration and action.

It is further ordered, That from and after this date the office of the inspector of buildings is assigned to Commissioner Wheatley.

JANUARY 21, 1888.

In reference to so much of the space included in the lines of Meridian avenue (as drawn on the Hall and Elvans plat of 1867) as lies between the Prospect street of that plat and Boundary street of Washington City, and west of the west line of Sixteenth street extended of the full width of 160 feet, it is

Ordered, That the Commissioners of the District of Columbia hereby disclaim all intention and purpose of occupying any part of said ground as a street, highway, or public way of any kind.

This declaration is made for the purpose of relieving said land and the owner or owners, claimant or claimants, of the same from all embarrassment, cloud, or uncertainty which may be supposed to exist by reason of the making and recording of said plat.

It is not the purpose of this order in any way to interfere with any private right or claim existing or asserted in or to any part of said land, but only to leave the same clear of any claim by the District of Columbia by reason of the offered dedication of said plat.

Nor is it the purpose of this order in any way to impair any right or claim of right which may exist in the Commissioners to any and all other parts of said Meridian avenue as drawn on said plat, all of which the Commissioners hold and reserve to be hereafter dealt with as the public interests may require and the law of the land permits.

FEBRUARY 2, 1888.

Ordered, That the building regulations of the District of Columbia adopted by the order of November 1, 1887, are hereby amended by striking out the words "Engineer Commissioner" wherever they occur therein and inserting the word "Commissioners" in lieu thereof.

FEBRUARY 18, 1888.

Ordered, That the collector of taxes, of the District of Columbia is authorized and directed, in all cases where special assessments are made for work done under the compulsory permit system, to apply all or so much as may be necessary of any preliminary deposit that may have been made for account of the work embraced in such special assessment to the satisfaction of such special assessment, upon bills certified by the chief of the special assessment division, and refund to the depositor any excess of the amount of such deposit that may remain over and above the amount of the special assessment.

(2) That in all cases where the amount of the deposit is less than the amount of the special assessment, the entire amount of such deposit shall be applied to the special assessment and credited thereon as a partial payment.

(3) That in cases where the amount of the deposit has been paid by the collector of the District of Columbia to the superintendent of streets the amount of such deposit shall be certified by the collector of the District of Columbia to the chief of the special assessment division, who shall credit such amount upon the special assessment as may be necessary to satisfy the same, and report to the collector of the District of Columbia the amount of any balance that may remain due to the depositor.

FEBRUARY 29, 1888.

(2) All steam engineers' licenses issued by the Commissioners of the District of Columbia under the provisions of the act of Congress to regulate steam engineering in the District of Columbia approved February 28, 1887, and now in force, are hereby extended until otherwise ordered.

MARCH 5, 1888.

(2) The assessor of the District of Columbia is hereby charged with the preliminary examination of the statements of the insurance companies submitted to the Commissioners in pursuance of the act entitled "An act to regulate insurance in the District of Columbia," approved January 26, 1887, and will make to the Commissioners, in writing, reports of his finding in each case.

MARCH 7, 1888.

Ordered, That the collector of taxes shall, as soon as practicable, furnish triplicate reports to the Commissioners of the total amount of collections made by him on account of assessments for cost of labor incurred under the provisions of law respecting the application of the appropriations for permit work, prior to the 1st of March, 1888, and shall on the first of each month thereafter furnish triplicate reports of the collections which shall have been made on said account for the month preceding.

MARCH 21, 1888.

Ordered, That with the view of avoiding unnecessary complexity in the accounts connected with appropriations for "permit work" no payments or deposits on account of such work shall be received hereafter until the work shall have been completed and assessment duly made therefor.

APRIL 2, 1888.

Ordered, That Commissioner William B. Webb is hereby chosen president of the Board of Commissioners of the District of Columbia for the year beginning this date, and Commissioner Samuel E. Wheatley acting president of said Board for same period.

APRIL 19, 1888.

Ordered, The requisite proceedings having been taken by all the owners of square numbered 592, in conformity to the act of Congress entitled "An act to authorize the changing of alley ways in the city of Washington," approved July 6, 1882, so much of the old alley ways in said square as the petitioners ask to have closed is hereby closed as prayed for and as is indicated for that purpose on the plan hereto attached (L. R. 143, 154 C. O.), and the new alley ways proposed by the petitioners to be substituted therefor as indicated on said plan are hereby declared open as public alleys.

APRIL 20, 1888.

Upon the advice of the attorney for the District of Columbia, to whom the matter of the payment of certain claims for the refunding of taxes paid on property used for manufacturing purposes, made under the provisions of the act of the legislative assembly of the District of Columbia entitled "An act for the encouragement of manufactures in the District of Columbia," approved June 26, 1873, it is

Ordered, That the payment of all such claims filed since the 1st day of January, 1888, be refused, and that the claimants in all such cases be referred to the courts of the District of Columbia for the adjudication of any rights they may have under the said act of the legislative assembly.

APRIL 25, 1888.

In accordance with the recommendations of Commissioner Samuel E. Wheatley, set forth in his report of the 23d instant, relative to the method of keeping accounts in the District offices, made in response to the order of the board dated April 2, 1887, it is

Ordered, That the assessor of the District shall make a careful examination of the old tax ledgers and ascertain the taxes really due and collectible, and report what taxes are doubtful or fictitious; the former, including all taxes other than the current levy, shall be consolidated in an arrears book or books, numerically arranged as to squares and lots, and the amount thus ascertained debited to the collector. This book, after most careful research and examination of all prior records, shall be treated and accepted as a final tax account of the District of Columbia at the date to which the record shall be made.

(2) The annual tax list shall be prepared by the assessor in alphabetical order, be verified by the auditor, and delivered to the collector of taxes prior to November 1 of each year, and the latter shall duly receipt therefor. The auditor shall debit the collector upon his receipt to the assessor with the total amount of the tax levy and credit him with errors and remissions when such occur, and with his daily deposits in the Treasury. The balance of said levy shall appear upon the tax ledgers as uncollected taxes. At the end of the fiscal year the auditor shall compare the receipts as shown by the collector's day-books, first

with the deposits as acknowledged by the Treasurer of the United States; second, with the credit entries as made upon the tax ledgers to ascertain whether the uncollected balance appearing agrees with difference between the total assessment and the total acknowledged collection. This done the collector shall compile the list of arrearages, which, after verification by the auditor, shall be published in conformity with the requirements of law.

(3) Tax bills shall be prepared with coupon attachments as at present. The collector, after stamping and receipting a tax bill, shall stamp, initial, and detach the corresponding coupon and transmit daily, at the close of business, all coupons, together with the usual summary statement of collections to the auditor for comparison and verification.

(4) Monthly, quarterly, or at such stated periods as the Commissioners may determine, the auditor shall compare these coupons with the tax ledgers to ascertain the correctness of the posting from the collector's cash books, or to correct errors that appear.

MAY 11, 1888.

Ordered, The chief clerk of the water department is hereby directed to ascertain and report to the auditor of the District of Columbia—

(1) The total amount of water-main taxes and water rents outstanding and collectable June 30, 1888.

(2) The total amount of water rents due for the fiscal year, June 30, 1889.

MAY 16, 1888.

Ordered, That paragraph 174 of the Manual of the Metropolitan police force of the District of Columbia shall hereafter be construed to require the presence and participation of all the surgeons of the police and fire departments at each examination held for the purpose of ascertaining the physical qualifications of candidates for the police force of the District.

MAY 29, 1888.

Ordered, That hereafter the construction of carriage-ways and wagon-ways across and over sidewalks and parking or leading from public highways to private premises, will be done under the supervision of the engineer department.

The construction of *porte cocheres* and return carriage-ways over and across sidewalks and parking of the public streets is prohibited, except in special cases authorized by the Commissioners.

JUNE 13, 1888.

Ordered, The collector of taxes of the District of Columbia, upon receiving a deposit for permit work or for plumbers' or engineers' license fund, shall issue receipts therefor in duplicate, consecutively numbered, showing from whom, for what purpose, and the amount received, deliver the original receipt to the depositor, and transmit the duplicate to the auditor of the District of Columbia. He shall not pay out the moneys thus received except upon requisition of the auditor, approved by the Commissioners.

JUNE 18, 1888.

It appearing that the act of Congress approved February 6, 1879, entitled "An act relating to tax sales in the District of Columbia," makes it the duty of the collector, whenever called upon to furnish, in addition to the regular tax bills, certified statements over his hand and official seal of all taxes and assessments, general and special, "that may be due and unpaid at the time of making such certificate," and it further appearing that the collector in some instances has embraced in said certificate a statement of taxes that are not really due and unpaid, but which have in fact been paid by a sale of the property upon which said taxes have been imposed, thereby making confusion and uncertainty, it is

Ordered, That hereafter the duty of the collector in making certificates as aforesaid shall be confined strictly to a statement of the taxes due and unpaid, as required by the act of Congress above cited, and that he shall not enter upon the said certificate any statement with respect to taxes that have been paid, without regard to the manner in which the same have been paid.

B.

INDEX TO APPROPRIATIONS.

Index to appropriations for support of the government of the District of Columbia for fiscal years from 1878 to 1888, inclusive.

NOTE.—The column to left of "Year" column contains details. The column headed "Amount" means aggregates.

Object.		Year.	Amount.	Vol.	Page.
Advertising, general	\$7,000.00	1879		20	208, 416
Do.	7,000.00	1880		20	409
Do.	7,000.00	1881		21	162
Do. (deficiency)	69.60	1881		23	251
Do.	5,000.00	1882		21	465
Do.	5,000.00	1883		22	142
Do.	4,000.00	1884		22	469
Do.	4,000.00	1885		23	130
Do. (deficiency)	1,009.30	1885		24	264
Do. (deficiency)	30.50	1885			
Do.	4,000.00	1886		23	318
Do. (deficiency)	3,000.00	1887		24	136
Do. (deficiency)	2,366.31	1887			
Do. (deficiency)	2,052.09	1887			
Do.	69.15	1886			
Do.	3,000.00	1888		24	578
Do. (deficiency)	3,000.00	1889			
Alleys, cleaning	1,800.00	1889			
Do.		1879	\$7,500.00	20	208, 416
Do.		1880	7,500.00	20	409
Do.		1881	8,500.00	21	159
Do.		1882	6,500.00	21	462
Do.		1883	7,500.00	22	139
Do.		1884	7,500.00	22	466
Do.		1885	10,000.00	23	127
Do.		1886	10,000.00	23	315
Do. (See Streets and avenues, sweeping, cleaning, after 1886.)					
Alleys, payment of ground condemned for					
Alleys, current repairs of. (See Streets, avenues, and alleys, current repairs to.)		1881	27,497.73	21	162
Almshouse. (See Washington Asylum.)					
Almshouse, Georgetown					
Do.		1879	1,800.00	20	208, 416
Do.		1880	1,800.00	20	404
Do.		1881	1,800.00	21	156
Do.		1882	1,800.00	21	459
Do.		1883	1,800.00	22	136
Do.		1884	1,800.00	22	464
Do.		1885	1,800.00	23	126
Do.		1886	1,800.00	23	314
Do. (discontinued after this year)		1887	1,800.00	24	133
Aqueduct, Washington. (See Washington Aqueduct.)					
Aqueduct, Washington, extension of. (See Water supply of city of Washington, extension of.)					
Asphalt and cement, inspector of (laboratory expenses)		1889	1,000.00		
Assessments, general					
Do. (deficiency)		1879	10,000.00	20	208, 416
Do. (deficiency)		1883	8,479.00	23	252
Do.		1883	5,104.00	23	455
Do.		1886	15,000.00	23	313
Assessments, special. (See Special assessments.)		1889	15,000.00		
Assessments, superintendent of. (See Assessor's office.)					
Assessor's office:					
{ Treasurer's office					
{ Assessor's office (excluding new assessment)		1879	4,900.00	20	208, 416
{ Superintendent of assessments' office		1879	11,000.00	20	208, 416
{ Treasurer's office		1879	9,420.00	20	208, 416
{ Assessor's office		1880	5,300.00	20	405
{ Superintendent of assessments' office		1880	7,250.00	20	406
		1880	7,800.00	20	405

Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.	Year.	Amount.	Vol.	Page.
Treasurer and assessor's office (including \$3,000 for submap).....	1881	\$22,900.00	21	157
Do. (Deficiency).....	1881	82.43	23	251
Assessor's office (including special assessment clerk).....	1882	18,000.00	21	460
Do. (deficiency).....	1882	1,000.00	22	273
Do. (deficiency).....	1882	150.00	22	273
Do. (including special assessment clerk).....	1883	17,500.00	22	138
Do. (deficiency).....	1883	458.53	23	252
Do. (disallowed salaries allowed).....	1883	.....	22	580
Do.	1884	12,600.00	22	462
Do. (deficiency).....	1884	135.00	23	253
Do.	1885	13,600.00	23	123
Do. (deficiency).....	1885	550.00	23	454
Do. (deficiency).....	1885	39.32	24	263
Do.	1886	13,600.00	23	311
Do. (deficiency).....	1886	183.31	.....	.....
Do.	1887	14,600.00	24	130
Do. (deficiency).....	1887	218.50	.....	.....
Do. (including special assessment clerk).....	1888	16,300.00	24	571
Do. (including special assessment clerk).....	1889	17,300.00	.....	.....
Do. (deficiency).....	1888	809.65	.....	.....
Association for Works of Mercy (building).....	1887	5,000.00	24	134
Do.	1888	3,600.00	24	579
Do.	1889	5,000.00	.....	.....
Asylum, Washington. (See Washington Asylum.)				
Attorney's office.....	1879	10,000.00	20	208, 416
Do.	1880	9,000.00	20	405
Do.	1881	9,000.00	21	158
Do.	1882	8,812.00	21	461
Do. (deficiency).....	1882	33.60	22	591
Do.	1883	8,812.00	22	138
Do.	1884	8,812.00	22	463
Do.	1885	8,612.00	23	124
Do.	1886	8,712.00	23	311
Do.	1887	8,700.00	24	130
Do. (deficiency).....	1887	30.29	.....	.....
Do.	1888	9,000.00	24	571
Do.	1889	11,600.00	.....	.....
Auditor's office (excluding special assessment office, <i>q. v.</i>).....	1879	12,560.00	20	208, 416
Do. (excluding special assessment office, <i>q. v.</i>).....	1880	12,560.00	20	405
Do.	1881	13,000.00	21	157
Do.	1882	12,800.00	21	460
Do.	1883	12,900.00	22	137
Do.	1884	12,700.00	22	462
Do.	1884	2,500.00	22	462
Do. (temporary clerks).....	1884	143.96	23	454
Do. (deficiency).....	1885	16,500.00	23	123
Do.	1885	143.96	23	124
Do. (temporary clerks).....	1886	16,500.00	23	311
Do.	1886	4.12	.....	.....
Do. (deficiency).....	1887	16,500.00	24	130
Do.	1888	16,500.00	24	571
Do.	1889	16,500.00	.....	.....
Balances of appropriation unexpended applicable to payment of debt for completion of sewerage.....			23	62
Basin Rock Creek. (See Sewers, tidal).....			23	315
Bonds, contractor's retain, sales of (deficiency).....	1889	1,500.00	.....	.....
Bonds, 3.65s, permanent provision for.....			20	410
Bonds, Washington School, redemption of.....\$70,630.47	1882		21	465
Bonds, interest on. (See Interest.)				
Boss, Charles and John Kane, medical attendance to (deficiency)...	1882	97.75	23	251
Bridges, Anacostia, Benning's, and Chain.....	1879	9,200.00	20	208, 416
Do.	1880	10,200.00	20	403
Do.	1881	11,500.00	21	156
Do.	1882	2,000.00	21	458
Do.	1883	2,000.00	22	136
Do.	1884	2,000.00	22	464
Do.	1885	2,000.00	23	125
Do.	1886	3,380.00	23	313
Do.	1887	2,660.00	24	132
Do. (See Bridges, construction and repairs of, and Bridges, ordinary care of, for 1888 <i>et seq.</i>)				
Bridges, construction and repair of.....	1888	9,500.00	24	573
Do. (including retaining wall on M street at the approach to the new free bridge across the Potomac).....	1889	14,500.00	.....	.....
Bridges, ordinary care of.....	1888	2,500.00	24	573
Do.	1889	2,500.00	.....	.....
Bridge over Potomac at Georgetown.....	1887	240,000.00	24	85
Bridge over Potomac at Three Sisters (not used).....	1887	220,000.00	24	85
Bridges under Commissioners. (See Streets, alleys, and roads).....	1879		20	208, 416
Do.	1880	1,000.00	20	403
Do. (See County roads).....	1881		21	159

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Bridges under Commissioners	1882	\$500. 00	21	458
Do	1883	10, 700. 00	22	136
Do	1884	1, 500. 00	22	464
Do	1885	500. 00	23	125
Do	1886	6, 000. 00	23	313
Do	1887	10, 000. 00	24	132
Do. (See Bridges, construction and repair of, and Bridges, ordinary care of, 1888 <i>et seq.</i>)				
Bridge over James Creek Canal at M street	1883	4, 656. 76	22	136
Bridge over Rock Creek at M street	1881	6, 000. 00	21	156
Bridge at Pennsylvania ave	1888	60, 000. 00		
Bridge over Rock Creek at Woodley Lane	1888	35, 000. 00		
Buildings, inspector of, office of (excluding contingent expenses):				
Do	1879	\$5, 380. 00	20	208, 416
Do	1880	5, 380. 00	20	405
Do	1881	5, 380. 00	21	158
Do. (deficiency)	1881	6. 00	23	251
Do	1882	5, 580. 00	21	461
Do	1883	5, 580. 00	22	138
Do	1884	6, 260. 00	22	463
Do	1885	6, 260. 00	23	124
Do	1886	6, 460. 00	23	312
Do	1887	6, 460. 00	24	131
Do	1888	6, 460. 00	24	572
Do	1889	9, 180. 00		
Buildings, erection and repairs of. (See under title of office or institution for which building is provided.)				
Buildings, plans of, approval of. (See each appropriation, for buildings.)				
Canal, James Creek, dredging	1882	5, 000. 00	21	458
Canal, south of Capitol, filling of	1878	15, 000. 00	20	250
Do	1879	15, 000. 00	20	488
Do	1880	20, 000. 00	21	300
Do	1881	20, 000. 00	21	515
Do	1882	20, 114. 00	22	379
Do	1881	18, 600. 00	21	156
Canal, B street to deep water				
Cemetery, Holmead. (See Holmead Cemetery.)				
Central Dispensary and Emergency Hospital (balance due on building)	1889	12, 250. 00		
Certificates, sewer, redemption of	1886	366. 96	23	313
Do	1889	110. 00		
Checks, printing. (Included in miscellaneous expenses.)				
Do	1880		20	409
Do	1881		21	162
Do. (deficiency)	1882		21	465
Do	1883		22	142
Do	1884		22	469
Do	1885		23	130
Do	1886		23	318
Do	1887		24	137
Do	1888		24	578
Do	1889			
Children's Hospital	1879	5, 000. 00	20	208, 416
Do. (building)	1879	10, 000. 00	20	208, 416
Do	1880	5, 000. 00	20	404
Do	1881	5, 000. 00	21	157
Do	1882	5, 000. 00	21	460
Do	1883	5, 000. 00	22	137
Do	1884	5, 000. 00	22	465
Do	1885	5, 000. 00	23	126
Do	1886	5, 000. 00	23	314
Do	1887	5, 000. 00	24	133
Do	1888	5, 000. 00	24	579
Do	1889	5, 000. 00		
Church Orphanage	1884	1, 500. 00	22	465
Do	1885	1, 500. 00	23	126
Do	1886	1, 500. 00	23	315
Do	1887	1, 500. 00	23	133
Do	1888	1, 500. 00	24	579
Do	1888	6, 000. 00	24	579
Do	1889	5, 500. 00		
Collector of taxes' office	1879	15, 500. 00	20	208, 416
Do	1880	13, 800. 00	20	405
Do	1881	11, 500. 00	21	158
Do	1882	10, 000. 00	21	461
Do. (including special assessment clerk)	1883	13, 000. 00	22	138
Do. (including special assessment clerk)	1884	17, 300. 00	22	462
Do. (including special assessment clerk)	1885	17, 300. 00	23	123
Do. (including special assessment clerk)	1886	17, 300. 00	23	311
Do. (deficiency)	1887	19, 200. 00	24	130
Do	1887	12. 35		

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Object.	Year.	Amount.	Vol.	Page.
Collector of taxes' office (including special assessment clerk)	1888	\$16,500.00	24	571
Do	1888	364.00	.....	.....
Do. (including special assessment clerk)	1889	22,400.00	.....	.....
Colored Women and Children, National Association for Relief of	1879	5,000.00	20	208,416
Do	1880	6,500.00	20	404
Do	1881	6,500.00	21	157
Do	1882	6,500.00	21	460
Do	1883	6,500.00	22	137
Do	1884	7,000.00	22	465
Do. (building)	1884	20,000.00	22	465
Do	1885	7,000.00	23	126
Do. (furniture and heating)	1885	2,000.00	23	126
Do	1886	6,500.00	23	314
Do. (building)	1886	18,000.00	23	315
Do	1887	6,500.00	24	133
Do. (furniture)	1887	2,500.00	24	133
Do	1888	7,000.00	24	579
Do. (including care of colored foundlings)	1889	10,000.00	.....	.....
Columbia Hospital for Women	1879	12,000.00	20	208,416
Do	1880	12,000.00	20	404
Do	1881	15,000.00	21	157
Do. (cottages)	1881	3,000.00	21	157
Do	1882	15,000.00	21	459
Do. (furnishing cottages)	1882	800.00	21	459
Do	1883	15,000.00	22	137
Do	1884	15,000.00	22	465
Do. (arrears of taxes)	1884	5,320.53	23	253
Do	1885	15,000.00	23	126
Do	1886	15,000.00	23	314
Do	1887	15,000.00	24	133
Do	1888	15,000.00	24	579
Do. (maintenance)	1889	15,000.00	.....	.....
Do. (buildings, machinery, etc.)	1889	11,300.00	.....	.....
Connelly, John, relief of	1884	91.80	23	531
Contractor's retain bonds, deficiency	\$1,500.00	1889	.....	.....
Contingent expenses (general)	1880	20,000.00	20	410
Do	1881	20,000.00	21	162
Do	1882	15,000.00	21	466
Do	1883	10,000.00	22	143
Do	1884	10,000.00	22	469
Do	1885	5,000.00	23	131
Do	1886	5,000.00	23	319
Do	1887	5,000.00	24	137
Do. (See Emergency fund, for this and after years)	1888	.....	.....	.....
Coroner's office	1879	2,500.00	20	208,416
Do	1880	2,500.00	20	405
Do. (deficiency)	1880	748.00	21	253
Do	1881	2,450.00	21	158
Do. (deficiency)	1881	96.00	22	591
Do	1882	2,500.00	21	461
Do	1883	2,500.00	22	138
Do	1884	2,500.00	22	463
Do	1885	2,500.00	23	124
Do	1886	2,500.00	23	312
Do	1887	2,500.00	24	131
Do	1888	2,650.00	24	572
Do	1889	2,800.00	.....	.....
Court of Claims. (See Referees, etc., Suits, etc.)	1879	18,500.00	20	208,416
Courts	1880	18,500.00	20	409
Do	1880	3,500.00	21	253
Do. (deficiency)	1881	16,818.00	21	161
Do	1882	16,818.00	21	463
Do	1883	15,418.00	22	141
Do	1883	15.00	24	264
Do. (deficiency)	1883	311.00	23	252
Do. (deficiency)	1883	400.00	22	586
Do. (deficiency)	1884	15,418.00	22	467
Do	1884	49.45	23	455
Do. (deficiency)	1884	6,500.00	23	253
Do. (deficiency)	1884	32.50	23	455
Do	1885	16,218.00	23	129
Do	1886	16,218.00	23	317
Do. (deficiency)	1886	1,000.00	24	264
Do	1887	16,218.00	24	135
Do	1888	18,724.00	24	577
Do	1889	19,018.00	.....	.....
Do. (including writs of lunacy)	1889	93.39	.....	.....
Do. (deficiency)	1879	.....	20	208,416
Damages (included in miscellaneous)	1880	.....	20	404
Do. (included in miscellaneous)	1881		21	162
Do. (included in miscellaneous)	1881		21	162

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Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.	Year.	Amount.	Vol.	Page.
Damages (included in miscellaneous).....	1882		21	465
Do. (deficiency)	1882		22	273
Do. (included in miscellaneous)	1883		22	142
Do. (Boundary sewer)	1883	\$1,000.00	22	143
Do. (included in miscellaneous).....	1884		22	469
Do. (included in miscellaneous).....	1885		23	130
Do. (included in miscellaneous).....	1886		23	318
Do. (included in miscellaneous).....	1887		24	137
Do. (included in miscellaneous).....	1887			
Do. (included in miscellaneous).....	1888			
Do. (included in miscellaneous).....	1889			
Darby, Rezin	1885	1,658.61	23	128
Deficiency, general. (See General expenses.)				
Disallowances on account of salaries.....	1883		22	586
District offices, rent of..... \$6,000.00	1879		20	208,416
Do..... 6,000.00	1880		20	409
Do..... 3,600.00	1881		21	162
Do..... 3,600.00	1882		21	465
Do..... 3,600.00	1883		22	142
Do..... 3,600.00	1884		22	469
Do..... 3,600.00	1885		23	130
Do..... 3,600.00	1886		23	318
Do..... 3,600.00	1887		24	136
Do..... 3,600.00	1888		24	578
Do..... 3,600.00	1889			
Douglas, Fred	1889	1,727.00		
Drawbacks allowed.....	1882		21	466
Do.....	1883		22	144
Do.....	1884		22	471
Do.....	1885		23	132
Do.....	1886		23	318
Do.....	1887		24	138
Do.....	1888		24	580
Do.....	1889			
Electric lights..... \$10,000.00	1887		24	134
Do..... 20,000.00	1888		24	574
Emergency fund. (See Contingent expenses; General, for prior years).....	1889	30,000.00		
Do.....	1888	5,000.00	24	580
Engineer's office (exclusive of water department, <i>q. v.</i> , lamp-lights, and market-masters, but including all items of appropriation under this title for 1888), down to that date.	1889	5,000.00		
Do. (salaries)	1879	76,578.85	20	208,416
Do. (contingent)	1879	1,207.15	20	208,416
Do. (salaries)	1880	67,860.85	20	406
Do. (contingent)	1880	5,527.15	20	406
Do. (salaries)	1881	57,251.00	21	159
Do. (contingent)	1881	5,600.00	21	159
Do. (deficiency)	1881	6.00	23	251
Do. (salaries)	1882	58,225.00	21	461
Do. (contingent)	1882	4,800.00	21	462
Do. (deficiency)	1882	3.00	22	591
Do. (salaries)	1883	55,425.00	22	138
Do. (contingent)	1883	5,300.00	22	138
Do. (deficiency)	1883	17.00	22	252
Do. (salaries)	1884	51,950.00	22	463
Do. (contingent)	1884	5,000.00	22	463
Do. (deficiency)	1884	4.10	24	263
Do. (salaries)	1885	54,650.00	23	124
Do. (contingent, including \$600 for gas and meters).....	1885	5,600.00	23	124
Do. (deficiency)	1885	1.15	24	263
Do. (salaries)	1886	55,390.00	23	312
Do. (contingent, including \$800 for gas and meters).....	1886	5,800.00	23	312
Do. (salaries)	1887	55,390.00	24	131
Do. (contingent, including \$800 for gas and meters).....	1887	5,800.00	24	131
Do. (salaries)	1888	55,390.00	24	572
Do. (contingent)	1888	5,800.00	24	572
Do. (salaries)	1888	386.04		
Do. (contingent), including laboratory expenses in office of inspector of asphalt and cement.....	1889	40,050.00		
Engraving and Printing, Bureau of, sewerage..... \$1,200.00	1889	5,600.00		
Do. (this appropriation is in lieu of that made in 1887).....	1887		24	224
Executive office.....	1888	2,443.30	24	512
Do. (deficiency)	1879	21,000.00	20	208,416
Do.....	1879	1.27	22	272
Do. (deficiency)	1880	21,000.00	20	404
Do.....	1880	18.70	22	272
Do. (deficiency)	1881	20,040.00	21	157
Do.....	1881	1,667.11	22	273
Do.....	1882	20,040.00	21	460

Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.	Year.	Amount.	Vol.	Page.
Executive office (deficiency).....	1882	\$341.71	23	454
Do. (deficiency).....	1882	28.93	22	591
Do.....	1883	21,240.00	22	137
Do.....	1884	21,141.50	22	462
Do. (deficiency).....	1884	40.00	24	263
Do.....	1885	21,244.00	23	123
Do.....	1886	21,244.00	23	311
Do (deficiency).....	1886	112.42	.....	.....
Do.....	1887	22,444.00	24	130
Do. (deficiency).....	1887	702.37	.....	.....
Do.....	1888	22,944.00	24	571
Do.....	1889	43,864.00	.....	.....
Expenses, general. (See General expenses.)				
Feeble-minded children, education of.*				
Fire department.....	1879	151,800.00	20	208,416
Do.....	1880	105,700.00	20	408
Do. (deficiency).....	1880	416.38	.....	.....
Do.....	1881	104,240.00	21	161
Do. (deficiency).....	1881	14.00	.....	.....
Do. (deficiency).....	1881	742.94	.....	.....
Do.....	1882	102,240.00	21	463
Do. (deficiency).....	1882	4,366.41	.....	.....
Do.....	1883	99,140.00	22	140
Do. (deficiency).....	1883	589.35	.....	.....
Do.....	1884	101,060.00	22	467
Do. (deficiency).....	1884	1,203.97	.....	.....
Do.....	1885	120,888.00	23	128
Do. (deficiency).....	1885	362.62	.....	.....
Do.....	1886	108,150.00	23	316
Do. (deficiency).....	1886	191.28	.....	.....
Do.....	1887	116,420.00	24	135
Do.....	1888	109,920.00	24	576
Do.....	1889	141,200.00	.....	.....
Detailed as follows: Apparatus, new; apparatus, repairs; build- ings, new; buildings, repairs; contingent expenses; forage; fuel; horses; hose; lots; salaries.				
Apparatus, new:				
Engine No. 1 (included in appropriation for \$48,000).....	\$3,200.00 1879	.....	20	208,416
Engine No. 2 (included in appropriation for \$48,000).....	3,400.00 1879	.....	20	208,416
Truck A (included in appropriation for \$48,000).....	1,749.00 1879	.....	20	208,416
Exchanged No. 4 for No. 4 Silsby (see Contin- gent expenses).....	1,250.00 1880	.....	20	409
Exchanged No. 5 for No. 5.....	3,000.00 1884	.....	22	467
Exchanged No. 3 for No. 3.....	9,000.00 { 1885	.....	23	128
Exchanged No. 1.....	9,000.00 { 1885	.....	23	128
Exchanged No. 2.....	9,000.00 { 1885	.....	23	128
New No. 1.....	4,500.00 1887	.....	24	135
Engine.....	4,500.00 1889	.....	.....	.....
Hose-carriage for northeastern section.....	700.00 1889	.....	.....	.....
Apparatus, repairs.....	7,000.00 1879	.....	.....	.....
Do.....	5,000.00 1880	.....	.....	.....
Do.....	3,500.00 1881	.....	.....	.....
Do. (including repair of truck).....	5,000.00 1882	.....	.....	.....
Do. (deficiency).....	149.00 1882	.....	.....	.....
Do. (deficiency).....	536.25 1882	.....	22	273
Do.....	4,000.00 1883	.....	22	140
Do.....	4,000.00 1884	.....	22	467
Do.....	4,000.00 1885	.....	23	128
Do.....	4,000.00 1886	.....	23	316
Do.....	49.48 1886	.....	.....	.....
Do. (deficiency).....	6,000.00 1887	.....	24	135
Do. (including hose).....	3,000.00 1888	.....	24	577
Do.....	3,000.00 1889	.....	.....	.....
Buildings, new:				
Trucks A and B (included in Contingent ex- penses).....	34,389.00 1879	.....	20	208,416
No. 5 (proceeds of lots).....	3,000.00 1882	.....	21	467
No. 5 (Town Hall).....	1,658.61 1884	.....	22	467
No. 5 (in lieu of proceeds of lots).....	10,000.00 1885	.....	23	129
No. 7.....	12,000.00 1885	.....	23	128
Engine-house in southeastern section and fur- nishing same.....	1,000.00 1889	.....	.....	.....
Buildings, repairs.....	1,000.00 1879	.....	20	208,416
Do.....	1,000.00 1880	.....	20	409
Do. (deficiency).....	16.38 1880	.....	22	272
Do.....	1,000.00 1881	.....	21	161

* First Comptroller, United States Treasury, decided that no part of appropriation for this purpose is chargeable to District of Columbia September 26, 1887.

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Fire Department—Continued.					
Buildings, repairs	\$1,000.00	1882		21	463
Do.	1,500.00	1883		22	140
Do.	500.00	1884		22	467
Do.	750.00	1885		23	128
Do. (deficiency)	12.25	1885			
Do.	1,000.00	1886		23	316
Do.	3,000.00	1887		24	135
Do.	2,000.00	1888		24	577
Do.	2,000.00	1889			
Forage (included in contingent expenses)		1879			
Do. (included in contingent expenses)		1880			
Do. (included in contingent expenses)		1881			
Do.	4,500.00	1882		21	463
Do. (deficiency)	2,082.26	1882		22	273
Do.	7,000.00	1883		22	140
Do.	5,500.00	1884		22	467
Do.	6,000.00	1885		23	128
Do.	5,500.00	1886		23	316
Do.	5,500.00	1887		24	135
Do.	5,500.00	1888		24	577
Do.	5,500.00	1889			
Fuel	500.00	1879		20	208, 416
Do.	500.00	1880		20	409
Do.	1,000.00	1881		21	161
Do.	1,500.00	1882		21	463
Do. (deficiency)	319.75	1882		22	273
Do.	1,500.00	1883		22	140
Do.	2,000.00	1884		22	467
Do.	2,000.00	1885		23	128
Do. (deficiency)	39.60	1885			
Do.	2,000.00	1886		23	316
Do.	2,000.00	1887		24	134
Do.	2,000.00	1888		24	577
Do.	2,000.00	1889			
Horses	2,500.00	1879		20	208, 416
Do.	2,000.00	1880		20	409
Do.	2,000.00	1881		21	161
Do.	2,000.00	1882		21	463
Do.	2,000.00	1883		22	140
Do.	2,000.00	1884		22	467
Do.	2,500.00	1885		23	128
Do.	2,500.00	1886		23	316
Do.	2,500.00	1887		24	134
Do.	2,000.00	1888		24	577
Do.	4,000.00	1889			
Hose (included in contingent expenses)		1879			
Do.		1880			
Do.		1881			
Do. (included in contingent expenses)	2,500.00	1882		21	463
Do.	2,500.00	1883		22	140
Do.	2,000.00	1884		22	467
Do.	2,000.00	1885		23	128
Do. (reappropriated)	2,250.00	1886		23	316
Do. (included in apparatus repairs)	160.00	1886			
Do.		1887		24	134
Do.	2,500.00	1888		24	577
Do.	4,500.00	1889			
Lots:					
Truck A					
Truck B	1,562.00	1879		20	208, 416
No. 5. (See Buildings, new)	2,500.00	1879		20	208, 416
Do.		1882		21	467
Do.		1885		23	128
Salaries (including telegraph and telephone service)					
Do.	66,160.00	1879		20	208, 416
Do. (deficiency)	71,780.00	1880		20	408
Do. (including telephone and telegraph service)	400.00	1880		21	253
Do.	76,740.00	1881		21	161
Do.	77,740.00	1882		21	463
Do.	72,140.00	1883		22	140
Do.	72,060.00	1884		22	467
Do.	75,480.00	1885		23	126
Do.	83,400.00	1886		23	318
Do.	85,420.00	1887		24	135
Do.	85,420.00	1888		24	577
Do.	95,500.00	1889			
Contingent expenses					
Do. (including \$1,250 exchange, No. 4, Silsby)	27,840.00	1879		20	208, 416
Do.	25,420.00	1880		20	409
Do. (deficiency)	20,000.00	1881		21	161
Do.	14.00	1881		23	251

Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.		Year.	Amount.	Vol.	Page.
Fire Department—Continued.					
Contingent expenses (deficiency)	\$742.94	1881		22	272
Do	10,000.00	1882		21	463
Do. (deficiency)	163.66	1882		22	591
Do. (deficiency)	149.00	1882		23	251
Do. (deficiency)	97.75	1882		23	251
Do. (deficiency)	866.74	1882		22	273
Do	8,500.00	1883		22	140
Do. (deficiency)	589.35	1883		23	252
Do	7,000.00	1884		22	467
Do. (deficiency)	1,200.00	1884		23	253
Do. (deficiency)	3.97	1884		23	455
Do	7,500.00	1885		23	128
Do. (deficiency)	310.77	1885			
Do	7,500.00	1886		23	316
Do. (deficiency)	141.80	1886			
Do	7,500.00	1887		24	135
Do	7,500.00	1888		24	577
Do	7,500.00	1889			
Fire-escapes in schools	10,000.00	1883		22	142
Do	6,000.00	1888		24	576
Forsyth, Wm., surveying pump-house site		1883	\$10.00		
Foundlings, Washington Hospital for (building)		1887	3,500.00	24	133
Do		1888	7,000.00		
Do		1889	12,600.00		
Fourteenth street road		1883	6,000.00	22	136
Fuel, ice, gas, etc		1879	3,000.00	20	208, 416
Do		1880	3,000.00	20	407
Do		1881	3,500.00	21	159
Do		1882	3,500.00	21	462
Do. (deficiency)		1882	47.77	22	591
Do. (deficiency)		1882	22.05	23	251
Do		1883	3,500.00	22	139
Do. (deficiency)		1883	354.97	23	252
Do		1884	5,000.00	22	463
Do. (deficiency)		1884	64.88	23	454
Do		1885	5,000.00	23	125
Do. (deficiency)		1885	362.35	24	263
Do		1886	5,000.00	23	312
Do		1887	5,000.00	24	131
Do. (See Miscellaneous for years after 1887.)					
Furniture. (See Contingent expenses of schools.)					
Garbage, removal of		1879	11,796.00	20	208, 416
Do		1880	10,355.00	20	409
Do. (deficiency)		1880	219.30	21	253
Do		1881	10,365.00	21	159
Do		1882	15,000.00	21	465
Do		1883	15,000.00	22	143
Do		1884	15,000.00	22	469
Do		1885	15,000.00	23	130
Do		1886	15,000.00	23	318
Do		1887	15,000.00	24	137
Do		1888	15,000.00	24	577
Do		1889	15,000.00		
Do		1882	500.000	22	273
Gas governors (deficiency)		1879		20	208, 416
Gas and meters, inspector and assist. inspector of	\$3,000.00	1880		20	406
Do	3,000.00	1881		21	158
Do	3,000.00	1882		21	461
Do. (inspector) (assist. inspector abolished)	2,000.00	1883		22	138
Do	2,000.00	1884		22	463
Do. (inspector)	2,000.00	1885		23	124
Do (laboratory expenses)	600.00	1885		23	124
Do. (laboratory expenses; deficiency)	1.15	1885		24	263
Do. (inspector of)	2,000.00	1886		23	312
Do. (laboratory expenses)	800.00	1886		23	312
Do. (inspector of)	2,000.00	1887		24	131
Do. (laboratory expenses)	800.00	1887		24	131
Do. (inspector of)	2,000.00	1888		24	572
Do. (laboratory expenses)	800.00	1888		24	572
Do. (inspector of)	2,000.00	1889			
Do. (laboratory expenses; included in contingent expenses, engineer's office)		1889			
Gas meters, superintendent of. (Included in Engineer's office.)					
General expenses. (This is the title of the appropriation for 1879, the items of which are set out in book of estimates for that year)	1,250,000.00	1879		20	208
Do	466,533.00	1879		20	416
Do. (transfer from 1883 to 1882; deficiency)	50,000.00	1882		22	274
Do	4,950.00	1882		22	591
Do. (deficiencies)		1888	3,010.75		

Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.	Year.	Amount.	Vol.	Page.
German Orphan Asylum:				
Purchase of property.....	1881	\$10,000.00	21	157
Building.....	1883	5,000.00	22	137
Do. (appropriation of 1883 continued).....	1884		22	465
Do. (appropriation of 1883, usable at the discretion of directors).....	1885		23	126
Good Shepherd. House of, building.....	1887	5,000.00	24	133
Do.....	1888	3,000.00	24	579
Government Printing Office.....	1883	5,600.00	22	143
Water supply to.....	1884	3,500.00	22	470
Harbor-master.....	1879	\$80.00	20	208, 416
Do.....	1880	80.00	20	406
Do.....	1881	80.00	21	158
Do.....	1882	80.00	21	461
Do.....	1883	80.00	22	138
Do.....	1884	1,200.00	22	463
Do.....	1885	1,200.00	23	124
Do.....	1886	1,200.00	23	312
Do.....	1887	1,200.00	24	131
Do.....	1888	1,200.00	24	572
Do.....	1889	1,200.00		
Harbor and river front.....	1888	2,500.00	24	574
Do.....	1889	2,500.00		
Hay scales.....	1879	200.00	20	208, 416
Do.....	1880	200.00	20	409
Do.....	1881	200.00	21	162
Do.....	1882	500.00	21	465
Do.....	1883	500.00	22	142
Do.....	1884	500.00	22	469
Do.....	1885	500.00	23	130
Do.....	1886	500.00	23	318
Do.....	1887	500.00	24	136
Do.....	1888	500.00	24	574
Do.....	1889	250.00		
Health Office, exclusive of removal of garbage, q. v.....	1879	22,000.00	20	208, 416
Do. (deficiency).....	1880	24,400.00	20	410
Do.....	1880	2,084.34	21	253
Do. (deficiency).....	1881	25,200.00	21	162
Do.....	1881	143.00	22	273
Do. (deficiency).....	1882	26,140.00	21	465
Do. (deficiency).....	1882	400.00	22	273
Do.....	1882	130.37	22	591
Do.....	1883	27,580.00	22	143
Do.....	1884	27,780.00	22	469
Do.....	1885	29,180.00	23	130
Do.....	1886	28,530.00	23	318
Do. (deficiency).....	1887	27,280.00	24	137
Do.....	1887	331.20		
Do.....	1888	27,580.00	24	577
Do.....	1889	28,310.00		
Holmead Cemetery (square 109), removal of bodies.....	1879		20	353
Do.....do.....	1881	2,000.00	21	162
Do.....do.....	1882	1,000.00	21	465
Do. (sale of).....	1885		23	455
Do. (sale of).....		\$5,136.23	20	353
NOTE.—The work of removing these bodies was completed for this sum in addition to the \$3,000 heretofore appropriated. This amount was paid out of contingent fund of public schools, \$3,000 of which was refunded by deficiency appropriation. (See Eng. Rep. 1885, p. 272.)			20	130
Homeopathic Hospital. (See National Homeopathic Hospital Association.)				
Hospital, pest.....	1886	600.00	23	318
House of Good Shepherd (see Good Shepherd, etc.).....	1887		24	133
Howard University.....	1880	10,000.00	20	404
Improvements east of Capitol to be completed.....			22	464
Improvements, repairs, etc., of streets. (See Streets; Sewers.)				
Inaugural ceremonies of 1885, to keep order during.....	1885	8,000.00	23	303
Indigent persons, temporary food and lodging to. (See Washington Night Lodging House Association)				
Industrial Home School.....	1889	2,500.00		
Do.....	1879		20	208, 416
Do.....	1880	5,000.00	20	404
Do.....	1881	10,000.00	21	157
Do. (building).....	1882	5,000.00	21	460
Do.....	1882	5,000.00	21	460
Do.....	1883	5,000.00	22	137
Do.....	1884	10,000.00	22	465
Do.....	1885	12,500.00	23	126
Do. (building).....	1886	12,000.00	23	315
Do.....	1887	3,500.00	24	133

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Object.	Year	Amount.	Vol.	Page.
Industrial Home School	1887	\$10,000.00	24	133
Do.....	1888	10,000.00	24	579
Do.....	1889	10,000.00	.....	.....
Do. (repairs, etc., to buildings)	1889	1,500.00	.....	.....
Insane, Government Hospital for	1879	17,000.00	20	208, 416
Do.....	1880	.....	20	395
Do.....	1880	17,000.00	20	404
Do.....	1881	37,000.00	21	156
Do.....	1882	40,000.00	21	459
Do. (deficiency)	1882	5,198.13	22	264
Do.....	1883	43,200.00	22	146
Do.....	1884	46,700.00	22	464
Do.....	1885	50,436.00	23	126
Do.....	1886	53,462.00	23	314
Do.....	1887	75,132.00	24	133
Do.....	1888	75,132.00	24	579
Do.....	1889	79,185.00	.....	.....
Inspectors on improvements. (See all annual appropriations for District of Columbia.)				
Insurance. (Included in fuel, ice, gas, etc.)			20	410
Interest and sinking fund on 3.65 bonds, permanent provision for	1879	1,018,965.70	20	208, 416
Interest and sinking fund (exclusive of water debt)	1880	1,155,583.55	20	410
Do. (exclusive of water debt)	1880	90.00	21	253
Do. (deficiency; exclusive of water debt)	1881	1,155,583.55	21	162
Do. (exclusive of water debt)	1881	2,400.00	21	160
Do. (Linthicum loan, interest)	1881	162,169.93	21	322
Do. (deficiency; exclusive of water debt)	1882	1,213,947.97	21	466
Do. (exclusive of water debt)	1882	40,000.00	21	466
Do. (Linthicum loan, redemption of)	1883	1,213,947.97	22	143
Do.....	1883	44,610.00	22	144
Do. (for water-stock bonds)	1884	1,213,947.97	22	469
Do.....	1884	44,610.00	22	470
Do. (for water-stock bonds)	1885	1,213,947.97	23	130
Do.....	1885	44,610.00	23	131
Do. (for water-stock bonds)	1885	30,000.00	23	132
Do. (account increase water supply)	1886	1,213,947.97	23	319
Do.....	1886	44,610.00	23	319
Do. (for water-stock bonds)	1886	55,047.27	23	319
Do. (account increase water supply)	1887	1,213,947.97	24	137
Do.....	1887	44,610.00	24	137
Do. (for water-stock bonds)	1887	57,239.02	24	137
Do. (account increase water supply)	1888	1,213,947.97	24	578
Do.....	1888	44,610.00	24	580
Do. (for water-stock bonds)	1888	76,655.69	24	580
Do. (account increase water supply)	1889	1,213,947.97	.....	.....
Do.....	1889	44,610.00	.....	.....
Do. (for water-stock bonds)	1889	86,962.35	.....	.....
Do. (account increase water supply)	1879	25,000.00	20	208, 416
Judgments	1880	40,000.00	21	253
Do. (deficiency)	1881	2,704.20	21	162
Do.....	1882	15,000.00	21	466
Do.....	1883	25,000.00	22	143
Do.....	1883	21,223.82	23	252
Do. (deficiency)	1885	2,214.41	23	455
Do. (deficiency)	1886	16,762.73	24	264
Do.....	1887	7,642.00	.....	.....
Do. (deficiency)	1889	9,245.46	.....	.....
Judicial expenses..... \$2,500.00	1879	.....	20	208, 416
Do. (deficiency)	1879	25.80	22	272
Do.....	1880	2,500.00	20	409
Do. (deficiency)	1880	3,500.00	21	253
Do.....	1881	2,500.00	21	161
Do.....	1882	2,500.00	21	463
Do.....	1883	2,500.00	22	141
Do.....	1884	2,500.00	22	468
Do.....	1884	6,500.00	23	253
Do. (deficiency)	1885	2,500.00	23	129
Do.....	1885	15.00	24	264
Do. (deficiency)	1885	1,000.00	24	264
Do. (deficiency)	1886	2,500.00	23	31
Do.....	1887	2,500.00	24	136
Do.....	1888	2,500.00	24	577
Do.....	1889	2,500.00	.....	.....
Do. (writs of lunacy) .....	.....	2,000.00	.....	.....
Kane, John, medical attendance to (deficiency). (See Boss, Charles.)				
Laboratory. (See Asphalt and cement).				
Lamps, lighting, repairs, etc., exclusive of superintendent of lamps	1879	135,200.00	20	208, 416
Do.....	1880	129,570.00	20	409
Do.....	1881	122,500.00	21	159
Do.....	1882	104,325.00	21	462

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Lamps, lighting, repairs, etc., exclusive of superintendent of lamps—Continued.				
Do. (deficiency).....	1882	\$2, 089. 26	22	591
Do.....	1883	106, 750. 00	22	139
Do.....	1884	96, 280. 00	22	466
Do.....	1885	96, 280. 00	23	127
Do. (deficiency).....	1885	2, 095. 64	.....	.....
Do.....	1886	100, 900. 00	23	315
Do.....	1887	100, 000. 00	24	134
Do.....	1888	120, 000. 00	24	573
Do.....	1889	105, 000. 00	.....	.....
Lamps, superintendent of, may draw salary from both United States and District of Columbia.....	1882	.....	22	325
Laws of District of Columbia, revision of.....	1880	5, 000. 00	20	405
Linthicum loan, redemption of..... \$40, 000. 00	1882	.....	21	466
Do. (interest on)..... 2, 400. 00	1881	.....	21	160
Little Sisters of the Poor.....	1881	5, 000. 00	21	157
Do. (building).....	1885	25, 000. 00	23	222
MacNichol, Frank (deficiency).....	1882	50. 00	23	251
Map of suburban property, District of Columbia..... \$3, 000. 00	1881	.....	21	158
Macadam roadways.....	1882	5, 000. 00	21	458
Do.....	1883	5, 000. 00	22	135
Markets, contingent expenses and repairs of.....	1879	5, 425. 00	20	208, 416
Do.....	1880	5, 425. 00	20	409
Do.....	1881	5, 425. 00	21	161
Do. (repairs of Georgetown Market).....	1882	1, 500. 00	21	465
Do.....	1882	3, 000. 00	21	465
Do. (included in fuel, ice, gas, etc.).....	1883	1, 500. 00	22	142
Do. (deficiency, included in fuel, ice, etc.).....	1884	.....	22	463
Do. (included in fuel, ice, etc.).....	1884	.....	23	454
Do. (deficiency, included in fuel, ice, etc.).....	1885	.....	23	125
Do. (included in fuel, ice, gas, etc.).....	1885	.....	24	263
Do. (included in market masters).....	1886	.....	23	312
Do.....	1887	.....	24	131
Do.....	1888	800. 00	24	572
Market masters.....	1889	1, 700. 00	.....	.....
Do.....	1879	4, 950. 00	20	208, 416
Do.....	1880	4, 950. 00	20	409
Do.....	1881	4, 950. 00	21	161
Do.....	1882	5, 400. 00	21	465
Do.....	1883	5, 400. 00	22	142
Do.....	1884	4, 500. 00	22	463
Do.....	1885	4, 500. 00	23	124
Do.....	1886	4, 500. 00	23	312
Do.....	1887	4, 500. 00	24	131
Do. (deficiency).....	1888	3, 300. 00	24	573
Do.....	1888	53. 19	.....	.....
Do.....	1889	3, 300. 00	.....	.....
Marshal of United States for District of Columbia..... \$2, 316. 00	1879	.....	20	208, 416
Do..... 2, 316. 00	1880	.....	20	409
Do..... 2, 500. 00	1881	.....	21	161
Do..... 2, 500. 00	1882	.....	21	463
Do. (deficiency)..... 2, 000. 00	1883	.....	22	141
Do..... 311. 00	1883	.....	23	252
Do. (deficiency)..... 1, 400. 00	1884	.....	22	467
Do..... 32. 50	1884	.....	23	455
Do..... 1, 400. 00	1885	.....	23	129
Do..... 1, 400. 00	1886	.....	23	317
Do..... 1, 400. 00	1887	.....	24	135
Do..... 1, 400. 00	1888	.....	24	577
Do..... 1, 400. 00	1889	.....	.....	.....
Mercy, Association for, Works of. (See Associations, etc.)				
Miscellaneous expenses, including only rent of District offices, general advertising, checks, damages, and other items in appropriation for 1888.....	1879	18, 564. 00	20	208, 416
Do.....	1880	19, 500. 00	20	409
Do.....	1881	17, 398. 07	21	162
Do. (deficiency).....	1882	11, 600. 00	21	465
Do. (deficiency).....	1882	25. 00	23	454
Do.....	1882	1, 500. 00	22	273
Do. (deficiency).....	1883	11, 600. 00	22	142
Do.....	1883	17. 20	.....	.....
Do.....	1883	23. 37	23	252
Do. (deficiency).....	1884	10, 100. 00	22	469
Do. (deficiency).....	1885	10, 100. 00	23	130
Do.....	1885	1, 009. 30	24	264
Do. (deficiency).....	1885	30. 50	.....	.....
Do.....	1886	10, 100. 00	23	318
Do. (deficiency).....	1886	2, 466. 09		
Do.....	1887	9, 100. 00	24	136
Do.....	1887	2, 380. 28		
Do.....	1888	14, 800. 00	24	578

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Object.	Year.	Amount.	Vol.	Page.
Miscellaneous expenses, including only rent of District offices, general advertising, checks, damages, and other items in appropriation for 1888—Continued.				
Do	1889	\$14,800.00	-----	-----
Do. (deficiency)	1889	2,087.70	-----	-----
National Association for Relief of Colored Women and Children. (See Colored Women and Children, etc.)				
National Homeopathic Hospital Association building	1886	15,000.00	23	315
Do	1887	5,000.00	24	134
Do	1888	3,000.00	24	579
Do	1889	3,500.00	-----	-----
Do. (maintenance)	1889	3,000.00	-----	-----
Do	1889	2,500.00	-----	-----
National Temperance Home				
Night Schools. (See Schools, night.)				
O'Brien, M. T. (deficiency)	1882	50.00	23	251
Offices, District, rent of. (See District offices.)				
Old record division	1881	2,100.00	21	157
Do	1882	2,100.00	21	460
Parking (exclusive of \$1,600 of salaries)	1879	15,000.00	20	208, 416
Do. (exclusive of \$1,600 of salaries)	1880	15,000.00	20	409
Do. (exclusive of \$1,920 of salaries)	1881	15,320.00	21	159
Do. (exclusive of \$1,900 of salaries)	1882	18,000.00	21	462
Do. (exclusive of \$1,900 of salaries)	1883	18,000.00	22	139
Do	1884	18,000.00	22	466
Do	1885	18,000.00	23	127
Do	1886	18,000.00	23	315
Do	1887	18,000.00	24	134
Do	1888	18,000.00	24	573
Do	1889	18,000.00	-----	-----
Paupers, transportation of	1879	2,500.00	20	208, 416
Do	1880	2,500.00	20	404
Do	1881	3,500.00	21	156
Do. (deficiency)	1881	7.95	22	273
Do	1882	3,000.00	21	459
Do. (deficiency)	1882	72.49	22	591
Do	1883	3,000.00	22	136
Do	1884	3,000.00	22	464
Do	1885	3,000.00	23	126
Do	1886	4,000.00	23	314
Do	1887	4,000.00	24	133
Do	1888	4,000.00	24	579
Do	1889	4,000.00	-----	-----
Pavements, concrete, repairs of	1879	18,500.00	20	208, 416
Do	1880	100,000.00	20	403
Do	1881	75,000.00	21	155
Do	1882	50,000.00	21	458
Do	1883	50,000.00	22	135
Do	1884	50,000.00	22	464
Do	1885	50,000.00	23	125
Do. (deficiency)	1885	23.10	24	264
Do	1886	50,000.00	23	313
Do	1887	65,000.00	24	132
Do	1888	80,000.00	24	573
Do	1889	95,000.00	-----	-----
Pavements, replacement of, and work on sundry streets and avenues	1879	634,781.00	20	208, 416
Do	1880	250,000.00	20	403
Do	1881	300,000.00	21	155
Do. (deficiency)	1881	533.19	22	273
Do	1882	300,000.00	21	458
Do. (deficiency)	1882	3,500.00	22	591
Do. (deficiency)	1882	160.52	23	251
Do	1883	300,000.00	22	136
Do	1884	350,000.00	22	464
Do	1885	263,000.00	23	125
Do	1886	265,000.00	23	313
Do	1887	266,000.00	24	132
Do. (See Streets and avenues, improvement of, for 1888.)				
Pennsylvania avenue, at west front of Capitol Grounds	1879	-----	20	226
Penny lunch	1880	1,500.00	20	669
Permit work, material for	1879	11,521.00	20	208, 416
Do	1880	15,000.00	20	403
Do	1881	20,000.00	21	155
Do	1882	20,000.00	21	458
Do	1883	20,000.00	22	135
Do	1883	34.96	23	252
Do. (deficiency)	1884	30,000.00	22	464
Do	1885	50,000.00	23	123
Do	1885	177.74	24	264
Do. (deficiency)	1886	50,000.00	23	313
Do	1887	60,000.00	24	132
Do	1888	90,000.00	24	573

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Permit work, material for	1889	\$90,000.00		
Phelps, Seth L. (deficiency)	1885	156.50	23	455
Plumbing, inspector of	1882		21	461
Do.	1883		22	138
Do.	1884		22	463
Do.	1885		23	124
Do.	1886		23	312
Do.	1887		24	131
Do.	1888		24	572
Do.	1889			
Plumbing, assistant inspector of	1885		23	124
Do.	1886		23	312
Do.	1887		24	131
Do.	1888		24	572
Do.	1889			
Police court (including all under head of "Courts," but "judicial expenses"):				
Building	1881		21	162
Repairs to building	1885		23	222
Do. (See Police: Buildings, repairs 1887)	1887			
Salaries and contingent	1879		20	208,416
Do.	1880		20	409
Do.	1881		21	161
Do.	1882		21	463
Do. (deficiency)	1883		22	141
Do. (deficiency)	1883		23	252
Do.	1883		22	586
Do. (deficiency)	1884		22	467
Do.	1884		23	455
Do.	1885		23	129
Do.	1886		23	317
Do.	1887		24	135
Do.	1888		24	577
Do. (deficiency)	1889			
Police	1889			
Do. (deficiency)	1879	300,000.00	20	208,416
Do.	1879	50.85	23	454
Do. (deficiency)	1880	302,859.00	20	408
Do.	1880	45.40	22	272
Do. (deficiency)	1881	300,180.00	21	161
Do.	1881	586.34	22	272
Do. (deficiency)	1882	347,930.28	21	463
Do. (deficiency)	1882	1,224.00	22	273
Do.	1882	700.00	22	591
Do. (deficiency)	1883	301,980.00	22	140
Do. (deficiency)	1883	525.52	23	252
Do.	1883	500.00	22	586
Do. (deficiency)	1884	301,560.00	22	467
Do.	1885	342,100.00	23	128
Do. (deficiency)	1885	440.00	23	455
Do. (deficiency)	1886	342,320.00	23	316
Do.	1886	1,397.18	24	263
Do.	1886	10.19		
Do.	1887	344,780.00	24	135
Do. (deficiency)	1888	350,560.00	24	576
Do.	1889	406,540.00		
Do.	1889	5,000.00		
Detailed as follows: Buildings and sites; Buildings, repairs; Fuel; Rent; Salaries; Contingent expenses; Signal system.				
Buildings and sites:				
First, Fourth, and Eighth precinct stations:				
Proceeds of lot 3, square 382	1882	\$38,668.10	21	467
Lot 3, square 490	1882		22	37
Lots 1 and 17, square 312	1882	3,075.84	21	467
Lot 8 of square 181	1882	5,071.82	22	37
Stable, fourth precinct	1882	2,089.52	21	467
Second precinct station and site	1885	3,000.00	22	37
Sixth precinct station and site	1885	15,000.00	23	128
Sixth precinct (deficiency)	1886	15,000.00	23	128
Stables, second and sixth precincts	1886	1,397.18	24	263
Cells, third precinct	1887	5,500.00	24	135
Ninth precinct station and site	1887	600.00	24	135
Buildings, repairs	1889	15,000.00		
Do.	1879	1,200.00	20	208,416
Do.	1880	1,200.00	20	408
Do.	1881	1,500.00	21	160
Do.	1882	1,500.00	21	463
Do.	1883	1,500.00	22	140

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Police—Continued.					
Buildings, repairs.....	\$1,200.00	1884		22	467
Do.....	1,200.00	1885		23	127
Do.....	1,500.00	1886	.....	23	315
Do.....	2,000.00	1887	.....	24	135
Do.....	2,000.00	1888	.....	24	576
Do.....	2,400.00	1889	.....	.....	.....
Do. (additional story first precinct station) ..	4,500.00	1889	.....	.....	.....
Do. (water, heating and drying apparatus in six stations).....	600.00	1889	.....	.....	.....
Do. (accommodation of police matrons).....	3,200.00	1889	.....	.....	.....
Fuel.....	1,543.00	1879	.....	20	208,416
Do.....	1,543.00	1880	.....	20	408
Do.....	1,500.00	1881	.....	21	161
Do.....	1,500.00	1882	.....	21	463
Do.....	1,500.00	1883	.....	22	140
Do. (deficiency).....	500.00	1883	.....	22	586
Do.....	1,500.00	1884	.....	22	467
Do.....	2,000.00	1885	.....	23	128
Do.....	2,000.00	1886	.....	23	316
Do.....	2,000.00	1887	.....	24	135
Do.....	2,000.00	1888	.....	24	576
Do.....	2,000.00	1889	.....	.....	.....
Rent.....	6,200.00	1879	.....	20	208,416
Do.....	6,200.00	1880	.....	20	408
Do.....	5,960.00	1881	.....	21	161
Do.....	5,960.00	1882	.....	21	463
Do.....	5,960.00	1883	.....	22	140
Do.....	2,920.00	1884	.....	22	467
Do.....	3,020.00	1885	.....	23	128
Do.....	2,160.00	1886	.....	23	316
Do.....	1,200.00	1887	.....	24	135
Do.....	1,200.00	1888	.....	24	576
Do.....	1,200.00	1889	.....	.....	.....
Salaries.....	278,873.00	1879	.....	20	208,416
Do. (\$700 usable for furniture) ..	281,732.00	1880	.....	20	408
Do.....	284,751.00	1881	.....	21	161
Do.....	283,596.00	1882	.....	21	463
Do.....	283,020.00	1883	.....	22	140
Do.....	286,440.00	1884	.....	22	467
Do.....	303,380.00	1885	.....	23	128
Do.....	308,060.00	1886	.....	23	316
Do.....	318,980.00	1887	.....	24	135
Do.....	329,360.00	1888	.....	24	576
Do.....	362,340.00	1889	.....	.....	.....
Do. (police matrons).....	1,800.00	1889	.....	.....	.....
Contingent expenses.....	12,184.00	1879	.....	20	208,416
Do. (deficiency).....	50.85	1879	.....	23	454
Do.....	12,184.00	1880	.....	20	408
Do. (deficiency).....	45.40	1880	.....	22	272
Do.....	6,469.00	1881	.....	21	161
Do.....	586.34	1881	.....	22	272
Do. (deficiency).....	6,469.00	1882	.....	21	463
Do.....	700.00	1882	.....	22	591
Do. (deficiency).....	1,224.00	1882	.....	22	273
Do. (deficiency).....	10,000.00	1883	.....	22	140
Do.....	525.52	1883	.....	23	252
Do. (deficiency).....	9,500.00	1884	.....	22	467
Do.....	9,500.00	1885	.....	23	128
Do.....	440.00	1885	.....	23	455
Do. (deficiency).....	11,000.00	1886	.....	23	316
Do.....	10.19	1886	.....	.....	.....
Do. (deficiency).....	10,000.00	1887	.....	24	135
Do.....	11,500.00	1888	.....	24	576
Do.....	14,000.00	1889	.....	.....	.....
Signal system.....	5,000.00	1885	.....	23	128
Do.....	2,600.00	1886	.....	23	316
Do.....	4,500.00	1887	.....	24	135
Do.....	4,500.00	1888	.....	24	576
Do. (second precinct).....	4,500.00	1889	.....	.....	.....
Do. (third or fifth precinct).....	.....	1878	\$5,000.00	20	250
Poor, relief of.....	.....	1879	5,000.00	20	208,416
Do.....	.....	1879	15,000.00	20	208,416
Do.....	.....	1880	15,000.00	20	404
Do.....	.....	1881	10,000.00	21	157
Do.....	.....	1881	660.00	23	251
Do. (deficiency).....	.....	1882	15,000.00	21	459
Do.....		1883	15,000.00	22	137
Do.....		1884	15,000.00	22	465
Do.....		1885	15,000.00	23	126
Do.....		1886	15,000.00	23	314

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Poor, relief of.....	1887	\$15,000.00	24	133
Do.....	1888	15,000.00	24	579
Do.....	1889	15,000.00		
Poor, physicians to. (Included in Poor, relief of.)				
Property division (also included in engineer's office) .. \$11,621.00	1881		21	158
Do..... 11,115.00	1882		21	461
Do (included in executive office)..... 5,740.00	1889			
Property, sales of:				
Square 109 (see also Holmead Cemetery)..... 51,362.00			23, 20	130, 353
Lot 3, square 382..... 38,968.10			22, 21	37, 467
Lot 3, square 490..... 3,075.84			22, 21	37, 467
Lots 1 and 17, square 372..... 5,071.82			22	37
Lot 245, square 99.....			22, 21	37, 467
South of square 181..... 2,089.52			22, 21	37, 467
Fish wharf, square 6.....			21, 23	467, 27
Lots 47, 48, and 49, square 30.....			21, 22	467, 38
Lot 3 in square 108.....			20, 22	408, 38
Angles at Sixteenth and K, northwest..... 7,452.00			21	467
Printing Office, Government, water supply to. (See Government Printing Office.)				
Property yards, rent of (included in Contingent expenses of engineer's office) until 1889, then in Executive office.....				
Do..... 300.00	1879		20	208, 416
Do..... 300.00	1880		20	409
Do..... 300.00	1881		21	158
Do..... 300.00	1882		21	461
Do..... 300.00	1883		22	139
Do..... 300.00	1884		22	463
Do..... 300.00	1885		23	124
Do..... 300.00	1886		23	312
Do..... 300.00	1887		24	131
Do..... 300.00	1888		24	572
Do. (included in Executive office)..... 800.00	1889			
Pumps.....				
Do.....	1879	2,500.00	20	208, 416
Do.....	1880	2,500.00	20	409
Do.....	1881	3,000.00	21	159
Do.....	1882	3,000.00	21	462
Do. (deficiency).....	1883	3,000.00	22	139
Do.....	1883	7.08	23	252
Do.....	1884	3,000.00	22	466
Do.....	1885	3,000.00	23	127
Do. (deficiency).....	1886	3,000.00	23	315
Do.....	1887	57.29		
Do.....	1887	3,000.00	24	134
Do.....	1888	3,000.00	24	574
Do.....	1889	4,000.00		
Do.....	1889	325.00		
Ramsdell, Emily G.....				
Records, old. (See Old records.)				
Referees in the Court of Claims, United States.....	1882	2,000.00	21	464
Reform School, including salaries and support				
Do.....	1879	20,000.00	20	208, 416
Do.....	1879	10,000.00	20	208, 416
Do. (improvements).....	1880	20,000.00	20	404
Do. (purchase of Peter farm).....	1881	25,000.00	21	156
Do. (salaries).....	1881	8,500.00	21	156
Do. (support).....	1882	10,600.00	21	459
Do. (workshop and machinery; balance from Jay Cooke & Co.).....	1882	20,014.00	21	459
Do. (support; deficiency).....	1882		21	459
Do. (salaries).....	1882	2,775.00	22	273
Do. (support).....	1883	10,936.00	22	137
Do. (salaries).....	1883	27,014.00	22	137
Do. (support).....	1884	10,936.00	22	465
Do. (salaries).....	1884	22,014.00	22	465
Do. (support).....	1885	10,916.00	23	126
Do. (salaries).....	1885	22,000.00	23	126
Do. (support).....	1886	11,616.00	23	314
Do. (salaries).....	1886	25,000.00	23	314
Do. (support).....	1887	11,616.00	24	133
Do. (water-tank and building).....	1887	25,000.00	24	133
Do. (family building and tank-house).....	1887	19,500.00	24	252
Do. (salaries).....	1887	8,480.70		
Do. (support).....	1888	12,476.00	24	578
Do. (greenhouse).....	1888	25,000.00	24	578
Do. (workshop).....	1888	4,500.00	24	579
Do. (improvements of grounds).....	1888	4,700.00	24	579
Do. (salaries).....	1888	500.00	24	579
Do. (support).....	1889	12,596.00		
Do. (improvements of building and grounds).....	1889	26,000.00		
Register of wills' office (included in Miscellaneous expenses).....	1889	5,650.00		
Do.....	1879		20	208, 416
Do.....	1880		20	409

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Register of wills' office (included in Miscellaneous expenses).....	1881		21	162
Do.....	1882	.....	21	465
Do. (deficiency).....	1882	.....	22	273
Do.....	1883	.....	22	142
Do. (deficiency).....	1883	.....	23	252
Do.....	1884	.....	22	469
Do.....	1885	.....	23	130
Do.....	1886	.....	23	318
Do.....	1887	.....	24	136
Do.....	1888	.....	24	573
Do.....	1889	.....	.....	.....
Rent. (See under title of department or office paying the rent.)	1888	.....	.....	.....
Road, Benning's Bridge. (See Roads, county, etc.)	1888	.....	.....	.....
Road, Bladensburg. (See Roads, county, etc.)	1888	.....	.....	.....
Roads, county and suburban streets (included in Streets, current repairs).....	1879	.....	20	208, 416
Do. (deficiency).....	1879	\$2, 484. 76	22	272
Do. (included in Streets, current repairs).....	1880	.....	20	409
Do. (deficiency).....	1880	319. 61	22	272
Do.....	1881	.....	21	159
Do.....	1882	20, 000. 00	21	462
Do.....	1883	25, 000. 00	22	139
Do.....	1884	20, 000. 00	22	466
Do. (included in Streets, current repairs to).....	1885	25, 000. 00	23	127
Do. (deficiency).....	1884	96. 00	.....	.....
Do.....	1886	40, 000. 00	23	315
Do.....	1887	40, 000. 00	24	134
Do. (operating and extending).....	1887	20, 000. 00	24	134
Do. (constructing).....	1888	50, 000. 00	24	573
Do. (current repairs of).....	1888	25, 000. 00	24	573
Do. (constructing).....	1889	88, 980. 00	.....	.....
Do. (current repairs of).....	1889	45, 000. 00	.....	.....
Road, Eastern Branch. (See Roads, county, etc.)	1888	.....	.....	.....
Road, Fourteenth street, opening and widening	1883	6, 000. 00	22	136
Road, Seventh street, repair of	1881	15, 000. 00	21	156
Road, Tennallytown, purchase of	1883	3, 000. 00	22	408
Roadways, macadam. (See macadam, etc.)	1888	.....	24	573
Rock Creek basin. (See Sewer, tidal)	.....	.....	23	315
St. Ann's Orphan Asylum	1879	5, 000. 00	20	208, 416
Do.....	1880	5, 000. 00	20	404
Do.....	1881	5, 000. 00	21	157
Do.....	1882	5, 000. 00	21	460
Do.....	1883	5, 000. 00	22	137
Do.....	1884	5, 000. 00	22	465
Do.....	1885	5, 000. 00	23	126
Do.....	1886	5, 000. 00	23	314
Do.....	1887	5, 000. 00	24	133
Do.....	1888	6, 000. 00	24	579
Do.....	1889	6, 000. 00	.....	.....
St. Rose Industrial School	1887	5, 000. 00	24	133
Do.....	1888	5, 000. 00	24	579
Do.....	1889	5, 000. 00	.....	.....
Schools	1879	380, 000. 00	20	208, 416
Do.....	1880	475, 000. 00	20	408
Do. (deficiency).....	1880	8, 844. 00	21	253
Do. (exclusive of \$2,400 interest on Linthicum loan).....	1881	502, 434. 80	21	159
Do. (deficiency).....	1881	182. 36	22	272
Do.....	1882	582, 062. 47	21	464
Do. (deficiency).....	1882	41, 739. 74	.....	.....
Do.....	1883	529, 740. 40	22	141
Do. (deficiency).....	1883	82, 056. 99	.....	.....
Do.....	1884	546, 175. 00	22	468
Do. (deficiency).....	1884	10, 214. 17	.....	.....
Do.....	1885	590, 840. 00	23	129
Do. (deficiency).....	1885	5, 718. 33	.....	.....
Do.....	1886	554, 930. 00	23	317
Do. (deficiency).....	1886	1, 730. 13	.....	.....
Do.....	1887	597, 750. 00	24	136
Do. (deficiency).....	1887	1, 500. 00	24	204
Do. (deficiency).....	1887	1, 928. 88	.....	.....
Do.....	1888	812, 420. 00	24	574
Do.....	1889	958, 971. 00	.....	.....
Do. (deficiency).....	1889	1, 445. 49	.....	.....
Detailed as follows: Buildings, additions and sites; repairs and improvement of buildings and grounds; Fuel; Rent; Salaries; Contingent expenses.				
Buildings, additions, and sites:				
Force and Peabody	\$75, 000. 00	1880	20	408
Force, site in square 158 given for		1880	20	408
Peabody, completion of (deficiency)	7, 500. 00	1880	21	253

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Schools—Continued.				
Buildings, additions, and sites—Continued.				
Henry, Garnet, Tennallytown, and Columbia road.....	1881	\$100,000.00	21	160
Gales, Webster, Anacostia, and Bladensburg pike.....	1882	104,000.00	21	465
Heating and ventilating (deficiency).....	1882	13,000.00	22	273
High School, proceeds of bonds.....	1882	70,620.47	21	465
High School, proceeds of sale of angles at corner Sixteenth and K. northwest.....	1882	7,452.00	21	467
Jefferson, rebuilding (deficiency), reduced to \$57,000.....	1882		22	12
Do.....	1882	363.00	23	251
Do.....	1883	57,000.00	22	142
Fire-escapes.....	1883	10,000.00	22	142
Amidon.....	1883	24,000.00	22	142
Anacostia.....	1883	48,000.00	22	142
Bannaker.....	1883	24,010.00	22	142
Howard University (addition).....	1883	3,318.00	22	142
Anacostia, additional ground for.....	1883	750.00	22	142
Seaton, additional ground for.....	1883	3,800.00	22	142
Morse and Twining.....	1884	57,000.00	22	469
Brent.....	1884	23,000.00	22	469
Bladensburg road, near Brook's.....	1884	3,000.00	22	469
Bladensburg pike (addition), insufficient, not used.....	1884	12,000.00	22	469
Benning's.....	1884	5,000.00	22	469
Heating and ventilating.....	1884	12,000.00	22	468
Bladensburg pike.....	1885	3,500.00	23	130
Wormley and Blair, proceeds sale square 109.....	1885	49,000.00	23	130
Dennison.....	1885	66,000.00	23	130
Addison and Stevens.....	1886	60,000.00	23	318
Sites in square 1010 and Thirteen-and-a-half and M streets, southwest.....	1886		24	263
Heating apparatus (deficiency).....	1886	250.00	24	264
School site (deficiency).....	1886	880.13	24	136, 264
Maury.....	1887	75,000.00	24	575
Weightman and site.....	1888	3,000.00	24	575
Tennallytown addition.....	1888	3,000.00	24	575
Columbia road addition.....	1888	75,000.00	24	575
Hamilton road addition.....	1888	3,000.00	24	575
Towers, Magruder, and Bradley, at \$25,000 each.....	1888	75,000.00	24	575
Lots, sale of any, authorized for site.....	1888	none sold.	24	575
Lots not used.....	1888	3,000.00	24	575
Phelps, Carberry, Blake, and with sites, at \$35,000 each.....	1888	140,000.00	24	575
Two buildings and sites in first school division, one in second school division, one in third school division, one in fourth school division, one in fifth school division, one in seventh school division, and two in eighth school division, of not less than eight rooms each.....	1889	315,000.00		
Two new school buildings and sites in sixth school division.....	1889	12,000.00		
Sanitary improvements in old buildings.....	1888	10,000.00	24	575
Do.....	1889	3,000.00	24	575
Fire-escapes.....	1888	6,000.00	20	208, 416
Repairs and improvement of buildings and grounds.....	1879	20,000.00	20	408
Do.....	1880	25,000.00	21	160
Do. (deficiency).....	1881	15,000.00	22	273
Do.....	1881	105.87	21	465
Do. (deficiency).....	1882	10,000.00	22	273
Do.....	1882	3,000.00	22	273
Do.....	1882	2,000.00	22	273
Do.....	1882	1,000.00	22	273
Do. (deficiency) reappropriation.....	1883	15,000.00	22	141
Do.....	1883	2,540.50	22	591
Do. (deficiency).....	1884	15,000.00	22	468
Do.....	1884	2,500.00	23	17
Do.....	1884	64.17	23	455
Do.....	1885	20,000.00	22	130
Do.....	1886	20,000.00	23	318
Do.....	1887	20,000.00	24	136
Do. (deficiency).....	1888	20,000.00	24	575
Do. (including construction of fire-proof stair ways in Lincoln building).....	1889	137.51		
	1889	35,000.00		

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Schools—Continued.				
Fuel	1879	\$12,000.00	20	208,416
Do	1880	12,000.00	20	408
Do	1881	12,000.00	21	160
Do	1882	11,000.00	21	465
Do. (deficiency)	1882	5,000.00	22	273
Do	1883	15,000.00	22	141
Do. (deficiency)	1883	4,500.00	22	586
Do	1884	18,000.00	22	468
Do. (deficiency)	1884	500.00	23	253
Do	1885	18,000.00	23	130
Do	1886	20,000.00	23	318
Do	1887	20,000.00	24	136
Do	1888	20,000.00	24	575
Do	1889	22,000.00		
Furniture for new buildings	1889	9,000.00		
Rent	1879	28,000.00	20	208,416
Do	1880	30,000.00	20	408
Do. (exclusive \$2,400 interest on Linthicum loan)	1881	27,600.00	21	160
Do. (deficiency)	1881	76.49	22	273
Do	1882	23,000.00	21	464
Do. (deficiency)	1882	2,000.00	22	12
Do	1882	1,472.57	22	591
Do	1883	14,000.00	22	141
Do	1883	1,200.00	22	142
Do. (special rent)	1884	8,000.00	22	468
Do	1884	750.00	23	253
Do. (deficiency)	1885	6,460.00	23	130
Do	1885	300.00	23	455
Do. (deficiency)	1885	300.00	24	264
Do	1886	7,000.00	23	318
Do	1887	6,000.00	24	136
Do	1887	1,500.00	24	264
Do. (deficiency)	1888	15,000.00	24	575
Do	1889	15,000.00		
Salaries:				
Superintendence and teachers	1879	282,010.00	20	208,416
Janitors	1879	19,402.63	20	208,416
Superintendence and teachers	1880	292,010.00	20	407
Janitors	1880	19,402.63	20	407
Do. (deficiency)	1880	1,344.00	22	273
Superintendence and teachers	1881	303,410.00	21	159
Janitors	1881	24,424.80	21	160
Superintendence and teachers	1882	318,810.00	21	464
Janitors	1882	22,170.00	21	464
Teachers (deficiency)	1882	8,000.00	22	273
Secretary	1882	150.00	23	251
Superintendence and teachers	1883	342,825.00	22	141
Janitors	1883	25,000.00	22	141
Superintendence and teachers	1884	356,175.90	22	468
Janitors	1884	23,500.00	22	468
Do	1884	3,900.00	23	17
Superintendence and teachers	1885	379,100.00	23	129
Janitors	1885	28,780.00	23	129
Superintendence and teachers	1886	397,250.00	23	317
Teachers night schools (deficiency)	1886	600.00	24	264
Janitors	1886	30,680.00	23	317
Superintendence and teachers	1887	222,350.00	24	136
Teachers night schools	1887	2,500.00	24	136
Janitors	1887	31,900.00	24	136
Superintendence and teachers	1888	445,220.00	24	574
Teachers night schools	1888	5,000.00	24	574
Janitors	1888	34,400.00	24	575
Superintendence and teachers	1889	474,200.00		
Teachers night schools	1889	5,000.00		
Janitors	1889	37,711.00		
Teachers (deficiency)	1889	500.00		
Contingent expenses, including furniture, etc.	1879	18,587.37	20	208,416
Do	1880	21,587.37	20	408
Do	1881	20,000.00	21	160
Do	1882	15,000.00	21	465
Do. (deficiency)	1882	5,000.00	22	273
Do	1882	754.17	22	591
Do	1883	15,000.00	22	441
Do. (furniture)	1883	6,000.00	22	469
Do. (apparatus for High School)	1883	2,000.00	22	142
Do. (deficiency)	1883	1,875.68	23	252
Do. (apparatus; deficiency)	1883	1,971.72	23	252
Do. (furniture; deficiency)	1883	5.49	23	252
Do. (deficiency)	1883	6.50	23	454

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Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.	Year.	Amount.	Vol.	Page.
Schools—Continued.				
Contingent expenses, including furniture, etc..	\$4.50	1883		
Do.	15,000.00	1884	24	264
Do. (furniture)	6,000.00	1884	22	468
Do. (deficiency)	5,000.00	1884	22	469
Do.	20,000.00	1885	22	273
Do. (deficiency)	3,000.00	1885	23	130
Do. (deficiency)	2,118.33	1885	23	455
Do.	20,000.00	1886	24	264
Do.	20,000.00	1887	23	318
Do. (deficiency)	1,928.88	1889	24	136
Do.	20,000.00	1888		
Do. (furniture)	8,000.00	1888	24	575
Do. (night schools)	300.00	1888	24	576
Do. (industrial education plant)	5,000.00	1888	24	575
Do.	20,000.00	1889	24	575
Do. (deficiency)	494.84	1889		
Do. (furniture for new buildings)	9,000.00	1889		
Do. (night schools)	500.00	1889		
Do. (industrial education plant)	8,000.00	1889		
Do. (deficiency)	313.14	1889		
Schools, night (deficiency)	600.00	1886		
Do. (salaries)	2,500.00	1887	24	264
Do. (salaries)	5,000.00	1888	24	136
Do. (contingent)	3.00	1888	24	575
Do. (salaries)	5,000.00	1889	24	575
Do. (contingent)	500.00	1889		
Sealer of weights and measures		1879		
Do.			\$80.00	20
Do. (deficiency)		1880	80.00	20
Do.		1880	6.67	21
Do.		1881	80.00	21
Do. (salary discontinued after 1883)		1882	80.00	21
		1883	80.00	22
Sewers:				
Detailed as follows: Sewers, construction of; Sewers and basins, cleaning; Sewers, Boundary; Sewers, Bureau of Engraving and Printing; Sewers, general; Sewers, lateral; Sewers, main and pipe; Sewer, New York avenue; Sewers, obstructed, replacing; Sewers, suburban; Sewerage, system, completion of; Sewerage, plans for disposal of; Sewer Tiber, sewers, tidal.				
Sewers, construction of (deficiency)		1879		
Do.		1880		22
Do. (deficiency)		1880	143,000.00	20
Do.		1880	457.59	23
Do. (deficiency)		1881	115,000.00	21
Do.		1881	6,414.30	23
Do.		1882	72,000.00	21
Do.		1883	106,000.00	22
Do.		1884	595,000.00	22
Do. (deficiency)		1884	44.36	23
Do.		1885	*100,000.00	24
Do. (deficiency)		1885	20,000.00	23
Do. (deficiency)		1886	25,000.00	24
Do.		1887	46,200.00	24
Do.		1888	92,500.00	24
Do.		1889	115,000.00	
Sewers and basins, cleaning		1880	† 10,000.00	20
Do.		1881	† 3,000.00	21
Do. (deficiency)		1882	† 23,000.00	21
Do.		1882	† 25.57	22
Do.		1883	† 23,000.00	22
Do. (deficiency)		1884	† 23,000.00	22
Do.		1884	† 40.28	23
Do. (deficiency)		1885	† 25,000.00	23
Do.		1885	† 73.47	24
Do. (deficiency)		1886	† 25,000.00	23
Do. (and repairing)		1886	40.98	
Do. (and repairing)		1887	† 25,000.00	24
Do. (and repairing)		1888	30,000.00	24
Sewer, Boundary (deficiency) reappropriation		1889	30,000.00	
Do.		1879		22
Do. (deficiency)	\$100,000.00	1880		20
Do.	457.59	1880		23
Do. (deficiency)	100,000.00	1881		21
Do.	6,414.30	1881		23
Do.	50,000.00	1882		21
Do.	85,000.00	1883		22

* This \$100,000 for 1885 was merged with the \$500,000 for 1884 for completion of sewerage system, and applied to Boundary sewer and other main-sewer work.

† Cleaning basins under "Lateral sewers" prior to 1887.

Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.		Year.	Amount.	Vol.	Page.
Sewer, Boundary (condemnation land for)	\$1,000.00	1883	.....	22	143
Do.	75,000.00	1884	.....	22	464
Do. (deficiency)	44.36	1884	.....	24	264
Do.	100,000.00	1885	.....	23	125
Do. (deficiency)	20,000.00	1885	.....	24	264
Do. Bureau of Engraving and Printing. (See 1888)		1887	.....	24	224
Do.	2,443.30	1888	.....	24	512
Sewers, lateral.....	15,000.00	1880	.....	20	403
Do.	15,000.00	1881	.....	21	155
Do.	15,000.00	1882	.....	21	458
Do. (cleaning)	20,000.00	1882	.....	21	462
Do.	20,000.00	1883	.....	22	135
Do. (cleaning)	20,000.00	1883	.....	22	139
Do.	20,000.00	1884	.....	22	464
Do. (cleaning)	20,000.00	1884	.....	22	466
Do. (deficiency)	4.48	1884	.....	23	454
Do. (cleaning)	22,000.00	1885	.....	23	127
Do. (cleaning, deficiency).....	53.78	1885	.....	24	264
Do.	25,000.00	1886	.....	23	313
Do. (cleaning and repairing).....	20,000.00	1886	.....	23	315
Do. (cleaning and repairing) (deficiency).....	17.70	1886	.....	.....	.....
Sewers, main and pipe.....	50,000.00	1888	.....	24	574
Do.	70,000.00	1889	.....	.....	.....
Sewer, New York avenue	28,000.00	1880	.....	21	155
Do.	7,000.00	1882	.....	21	458
Sewers, obstructed, replacing	7,500.00	1888	.....	24	574
Do.	10,000.00	1889	.....	.....	.....
Sewers, suburban, constructing	35,000.00	1888	.....	24	574
Do.	35,000.00	1889	.....	.....	.....
Sewerage system, completion of.....	500,000.00	1884	.....	23	62
Do. (plans for disposal of)		1889	\$5,000.00	.....	.....
Sewer, Tiber, cleaning	10,000.00	1880	.....	20	409
Sewers, tidal, clearing.....	3,000.00	1881	.....	21	159
Do.	3,000.00	1882	.....	21	462
Do. (cleaning, deficiency)	25.57	1882	.....	22	591
Do. (cleaning)	3,000.00	1883	.....	22	139
Do.	3,000.00	1884	.....	22	466
Do. (cleaning, deficiency).....	35.80	1884	.....	23	454
Do. (cleaning)	3,000.00	1885	.....	23	127
Do. (cleaning, deficiency).....	19.69	1885	.....	24	264
Do. (cleaning)	5,000.00	1886	.....	23	315
Do. (cleaning, deficiency)	19.73	1886	.....	.....	.....
Do. (cleaning, deficiency)	3.53	1886	.....	.....	.....
Do. (under "Sewers and basins, cleaning" after 1886.)		1886	.....	23	313
Sewer certificates, redemption of (see Certificates, etc.).....		1879	2,700.00	20	208, 416
Sinking-fund office, salaries and contingent		1880	2,700.00	20	405
Do.		1881	2,700.00	21	158
Do.		1882	2,700.00	21	461
Do.		1883	2,700.00	22	138
Do.		1884	2,700.00	22	463
Do.		1885	2,700.00	23	124
Do.		1886	2,700.00	23	312
Do.		1887	2,700.00	24	131
Do.		1888	2,700.00	24	572
Do.		1889	2,700.00	.....	.....
Sinking fund. (See Interest and sinking fund.)			250.00	24	263
Snead, Isaac C. (deficiency)		1889	2,500.00	.....	.....
Special counsel in Strong case.....		1879	6,440.00	20	405
Special assessment division.....		1880	6,440.00	20	405
Do.		1881	4,300.00	21	157
Do.		1882	.....	21	461
Do. (included in assessor's office).....	\$1,800.00	1883	.....	22	138
Do. (included in assessor's office).....	1,800.00	1884	.....	22	362
Do. (included in collector's office).....	1,700.00	1885	.....	23	123
Do. (included in collector's office).....	1,700.00	1886	.....	23	311
Do. (included in collector's office).....	1,700.00	1887	.....	24	130
Do. (included in collector's office).....	1,700.00	1888	.....	24	571
Do. (included in assessor's office).....	1,700.00	1889	2,951.70	.....	.....
Standard Underground Cable Company					
Station-houses. (See Police.)					
Streets. (See Alleys, cleaning; Lamps, street; Parking; Pavements, concrete; Pavements, replacement of; Permit work; Pumps; Road, Fourteenth street; Road, Seventh street; Roads, county and suburban streets; Roadways, macadam; Streets, avenues, and alleys, current repairs to; Streets and avenues, improvement of; Streets and avenues, sweeping, cleaning, and sprinkling; Streets and avenues, improvement of; Streets below grade, filling of; Streets and avenues, sundry work on; Streets, suburban; Sewers.)					

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Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.	Year.	Amount.	Vol.	Page.
Streets, avenues, and alleys, current repairs to.....	1879	\$56,471.00	20	208,416
Do.....	1879	2,484.76	22	272
Do.....	1880	75,500.00	20	400
Do. (deficiency).....	1880	319.61	22	272
Do.....	1881	70,000.00	21	159
Do.....	1882	20,000.00	21	462
Do. (deficiency).....	1882	2.00	22	591
Do.....	1883	25,000.00	22	139
Do.....	1884	25,000.00	22	466
Do.....	1885	25,000.00	23	127
Do. (deficiency).....	1885	22.98	24	264
Do.....	1886	25,000.00	23	315
Do.....	1887	25,000.00	24	134
Do.....	1888	30,000.00	24	573
Do.....	1889	35,000.00		
Streets and avenues, sweeping, cleaning, and sprinkling.....	1879	35,100.00	20	208,416
Do.....	1880	35,100.00	20	409
Do.....	1881	35,100.00	21	159
Do.....	1882	30,000.00	21	462
Do.....	1883	33,000.00	22	139
Do.....	1884	40,000.00	22	466
Do. (deficiency).....	1885	40,000.00	23	127
Do.....	1885	20.67		
Do. (including cleaning alleys).....	1886	45,000.09	23	315
Streets, avenues, and alleys, sprinkling, sweeping.....	1887	58,000.00	24	134
Do.....	1888	65,000.00	24	573
Streets and avenues, improvement of.....	1889	77,000.00		
Streets, avenues, alleys, and roads, improvement of.....	1888	360,000.00	24	573
Do. (replacement of wood pavements).....	1889	615,000.00		
Do. (deficiency).....	1889	3,500.00		
Streets and avenues, sundry work on. (See Pavements, replacement of.)	1888	139.12		
Streets, below grade, filling of.....	1888	10,000.00	24	573
Streets, alleys, and roads, grading of.....	1889	15,000.00		
Do. (condemnation of).....	1889	10,000.00		
Streets, suburban. (See Roads, county, etc.)				
Suits against District of Columbia in Court of Claims and Departments, defense of District of Columbia.....	1887		24	252
Do. (see Courts).....	1888	\$2,500	24	577
Do. (see Courts).....	1889	2,500		
Suits, costs of, to reimburse Commissioner Phelps, defendant.....	1885		23	455
Surveys of District of Columbia.....	1881	5,000.00	21	156
Do.....	1882	5,000.00	21	458
Do.....	1883	5,000.00	22	135
Do.....	1884	5,000.00	22	464
Do.....	1885	5,000.00	23	125
Do.....	1886	5,000.00	23	313
Do.....	1887	4,000.00	24	132
Do.....	1888	4,000.00	24	573
Do.....	1889	10,000.00		
Surveyor's records, binding.....	1883	500.00	22	139
Taxes, school, and other, refunding of.....	1879	35,000.00	20	208,416
Taxes on Columbia Hospital, payment of (deficiency).....	1884	\$5,320.53	23	253
Taxes on lots 6 and 7, square 169 (deficiency).....	1885	543.30	23	456
Taxes, overdue personal, expenses of collection by distraint and sale, (included in Collector's office).....	1889	\$2,000		
Telegraph and telephone service (in fire department).....	1879		20	208,416
Do. (in fire department).....	1880			
Do. (in fire department).....	1881			
Do. (in fire department).....	1882			
Do. (deficiency), reappropriation.....	1883	17,000.00	22	140
Do.....	1883		23	252
Do.....	1884	12,440.00	22	467
Do.....	1885	20,440.00	23	129
Do.....	1886	15,440.00	23	317
Do. (including putting wires under ground).....	1887	15,840.00	24	135
Do.....	1888	23,340.00	24	577
Do. (reconstruct plant).....	1889	16,800.00		
Town Hall, Georgetown, remodeling of. (See Fire department, buildings.)	1889	5,000.00		
Tramway, Washington Asylum.....			23	125
Treasurer's office, District of Columbia. (See Assessor's office.)	1885			
Washington Aqueduct.....	1879	20,000.00	20	208,416
Do.....	1880	20,000.00	21	404
Do.....	1881	20,000.00	21	157
Do.....	1882	20,000.00	21	458
Do.....	1883	20,000.00	22	136
Do.....	1884	20,000.00	22	464
Do.....	1885	20,000.00	23	125
Do.....	1885	20,000.00	23	313

Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.	Year.	Amount.	Vol.	Page.
Washington Aqueduct	1886	\$20,000.00	24	132
Do.....	1887	20,000.00	24	573
Do.....	1888	20,000.00	.....	.....
Do.....	1889	5,000.00	.....	.....
Washington Aqueduct extension. (See Water supply, etc., increase of.)				
Washington Asylum	1879	52,500.00	20	208, 416
Do.....	1880	45,160.00	20	404
Do.....	1881	48,040.00	21	156
Do. (deficiency).....	1880	88.82	21	426
Do.....	1882	49,020.00	21	458
Do. (deficiency).....	1882	5,000.00	22	273
Do. (deficiency).....	1882	124.61	22	591
Do.....	1883	46,820.00	22	136
Do.....	1884	46,320.00	22	464
Do. (deficiency), reappropriation for 1883	1884	\$3,500	23	253
Do.....	1885	52,310.00	23	126
Do. (deficiency), reappropriation for 1883	1885	\$4,000	23	456
Do.....	1886	69,680.00	23	313
Do.....	1887	57,385.00	24	132
Do.....	1888	53,305.00	24	578
Do.....	1889	56,815.00	.....	.....
Detailed as follows: Under Salaries; Supplies and contingencies; Buildings and other improvements.				
Salaries	\$9,700.00	1879	20	208, 416
Do.....	9,860.00	1880	20	404
Do.....	9,540.00	1881	21	156
Do.....	10,820.00	1882	21	458
Do.....	10,820.00	1883	22	136
Do.....	10,820.00	1884	22	464
Do.....	11,560.00	1885	23	125
Do.....	11,680.00	1886	23	313
Do.....	12,885.00	1887	24	132
Do.....	13,305.00	1888	24	578
Do.....	13,415.00	1889	.....	.....
Supplies and contingencies	33,300.00	1879	20	208, 416
Do.....	35,300.00	1880	20	404
Do.....	28,500.00	1881	21	156
Do. (deficiency).....	88.82	1880	21	426
Do.....	30,000.00	1882	21	458
Do. (deficiency).....	5,000.00	1882	22	273
Do. (deficiency).....	124.61	1882	22	591
Do.....	35,000.00	1883	22	136
Do.....	35,000.00	1884	22	464
Do.....	35,000.00	1885	23	125
Do.....	38,000.00	1886	23	314
Do.....	39,000.00	1887	24	132
Do.....	40,000.00	1888	24	578
Do.....	40,000.00	1889	.....	.....
Buildings and other improvements:				
New hospital.....	2,000.00	1879	20	208, 416
Work-house.....	7,500.00	1879	20	208, 416
South wing of work-house.....	10,000.00	1881	21	156
Bunks, etc., work-house.....	4,500.00	1882	21	459
Steam heating, etc.....	3,700.00	1882	21	459
Work-house, completion of.....	1,000.00	1883	22	136
Hospital repairs.....	500.00	1884	22	464
Hospital ward, new (deficiency)*.....	3,500.00	1884	23	263
Stable, repairs to.....	2,500.00	1885	23	125
Cars and tracks	3,250.00	1885	23	125
Hospital ward, completion (deficiency)*.....	4,000.00	1885	23	455
Work-house, female.....	20,000.00	1886	23	314
Hospital ward, new	3,500.00	1887	24	132
Dummy engine.....	2,000.00	1887	24	133
New kitchen	2,500.00	1889	.....	.....
Fire-escapes.....	600.00	1889	.....	.....
Gas, introduction of, in almshouse.....	300.00	1889	.....	.....
Washington Night Lodging-House Association. (See Indigent persons)	1,500.00	1889	.....	.....
Water Department. (See also Water supply, etc., <i>infra.</i>)				
Salaries.....		1883	22	143
Do.....		1884	22	470
Do.....		1885	23	131
Do.....		1886	23	319
Do.....		1887	24	137
Do.....		1888	24	580
Do.....		1889	15,336.00	.....
Contingent expenses.....		1883	22	143
Do.....		1884	22	470
Do.....		1885	23	131

* Re-appropriated from 1883.

Index to appropriations for support of government of District of Columbia, etc.—Cont'd.

Object.	Year.	Amount.	Vol.	Page.
Water department—Continued.				
Contingent expenses	1886	\$2,400.00	23	319
Do.....	1887	2,400.00	24	137
• Do. (deficiency).....	1887	286.76	.....	.....
Do.....	1888	2,400.00	24	580
Do.....	1889	2,500.00	.....	.....
Mains, purchase and laying of, and high service.....	1883	55,101.50	22	143
Do.....	1884	53,251.50	22	470
Do.....	1885	100,000.00	23	131
Do.....	1886	78,000.00	23	319
Do.....	1887	75,000.00	24	137
Do. (deficiency).....	1887	1,064.68	.....	.....
Do.....	1888	100,000.00	24	580
Do.....	1889	161,000.00	.....	.....
Pumping engine, for high service and connections.....	1888	35,000.00	24	580
Interest on water bonds and on advance for additional water supply. (See Interest.)				
Water supply of city of Washington, increase of:				
Interest on cost. (See Interest, etc.)				
Land for aqueduct.....	1882	51,370.00	22	170
Aqueduct.....	1882	599,534.55	22	170
Main connections.....	1882	165,400.00	22	170
Land for reservoir.....	1882	35,250.00	22	170
Work on reservoir and gate-house.....	1882	431,273.75	22	170
Water rights at Great Falls.....	1882	45,000.00	22	170
Work on dam at Great Falls.....	1882	145,151.00	22	170
Protect Chesapeake and Ohio Canal.....	1882	12,300.00	22	170
Land for reservoir.....	1884	87,500.00	23	253
Do.....	1885	87,500.00	23	457
Do.....	1886	555,000.00	24	265
Debt for increase of water supply payable in not less than 25 annual installments.....			23	132
Fishway at Great Falls.....	1889	25,000.00	.....	.....
Unexpended balance usable to protect tunnel.....	1889	.....	.....	.....
Land for pump-house lot on U street.....	1889	2,275.00	.....	.....
Weights and measures, sealer of. (See Sealer, etc.)				
Women's Christian Association.....	1880	5,000.00	20	404
Do.....	1881	5,000.00	21	157
Do.....	1882	5,000.00	21	460
Do.....	1883	5,000.00	22	137
Do.....	1884	5,000.00	22	465
Do.....	1885	5,000.00	22	126
Do.....	1886	5,000.00	23	314
Do.....	1887	4,000.00	24	133
Do.....	1888	4,000.00	24	579
Do.....	1889	4,000.00	.....	.....
Work-house, erection of. (See Asylum.)				
Workmen of Board of Public Works or contractors thereunder ..	1879	75,000.00	20	208,416

C.

ASSESSOR'S REPORT.

ASSESSOR'S OFFICE, DISTRICT OF COLUMBIA,
Washington, October 5, 1888.

GENTLEMEN: I have the honor to present the following statements from this office for the fiscal year ended June 30, 1888:

LICENSES.

	Totals.	Increase.	Decrease.
Apothecaries.....	\$584. 69	\$12. 83	.....
Auctioneers.....	1, 450. 25	169. 65	.....
Book agents.....	48. 39	.....	\$347. 60
Brokers.....	100. 00	.....	.....
Banks and bankers.....	345. 21	.....	52. 42
Bar-rooms.....	70, 754. 48	.....	18, 089. 09
Brewers.....	170. 00	22. 08	.....
Bill posters.....	40. 00	.....	3. 34
Billiard and other tables, etc.....	1, 970. 90	.....	344. 56
Commercial agents.....	.....	.....	4, 733. 42
Cattle brokers.....	468. 34	.....	153. 35
Commission merchants.....	2, 046. 69	.....	243. 34
Dealers in ice.....	112. 00	.....	16. 00
Dealers in liquors (wholesale).....	9, 893. 09	336. 29	.....
Dealers in junk.....	803. 35	.....	303. 33
Dealers in old barrels.....	80. 00	.....	17. 50
Entertainments, circuses, etc.....	2, 130. 00	.....	500. 00
Hacks, cabs, and vehicles.....	3, 049. 62	463. 85	.....
Hotels.....	2, 725. 42	.....	30. 66
Intelligence offices.....	70. 85	11. 67	.....
Insurance companies and agents.....	9, 506. 11	437. 48	.....
Livery stables.....	2, 997. 60	45. 77	.....
Manufacturers of illuminating gas.....	1, 072. 00	.....	.....
Peddlers.....	1, 775. 62	.....	1, 279. 69
Pawnbrokers.....	2, 395. 84	687. 50	.....
Produce dealers at large.....	7, 421. 68	1, 224. 29	.....
Produce dealers in markets.....	4, 472. 96	.....	447. 94
Restaurants.....	4, 058. 35	.....	350. 33
Real-estate agents.....	7, 325. 11	.....	2, 313. 41
Theaters.....	600. 00	.....	200. 01
Variety theaters.....	500. 00	.....	.....
Total.....	138, 967. 55	3, 411. 41	29, 425. 99
Less.....	.....	.....	3, 411. 41
Total decrease.....	.....	.....	26, 014. 58

Total receipts from licenses, 1886-'87.....	\$164, 982. 13
Total receipts from licenses, 1887-'88.....	138, 967. 55
Decrease.....	26, 014. 58

There were issued during the past year 3,422 licenses, and in addition 580 certificates to the collector for miscellaneous receipts; 712 bar-room licenses and 424 for the sale of liquor by wholesale were issued, making a decrease in bar-room licenses of 210, and increasing whole-sale licenses 22, with a total decrease of places where liquor is sold of 188.

By a comparison of the various classes it will be perceived that nearly three-fourths of the total deficiency in receipts for the past year arise through the licensing of bar-rooms.

	Receipts from licenses.	Increase.	Decrease.
1878-'79.....	\$111,813.93		
1879-'80.....	120,639.57	\$8,825.64	
1880-'81.....	145,238.42	24,598.85	
1881-'82.....	123,177.52		\$22,060.90
1882-'83.....	128,438.78	5,261.26	
1883-'84.....	134,181.61	5,742.83	
1884-'85.....	144,662.67	10,481.06	
1885-'86.....	156,455.72	11,793.05	
1886-'87.....	164,982.13	8,526.41	
1887-'88.....	138,967.55		26,014.58
Total.....	1,368,557.90	75,229.10	48,075.48
Net increase.....		27,153.62	

The deficiency from commercial agents this year is total, owing to the decision of the United States Supreme Court, which makes the collection of revenue from that source no longer possible.

The small amount received from book agents this year is explained by the above-named decision, and licenses are no longer issued to that class.

The experience of the past year confirms the opinion expressed in my last report, in reference to the necessity for a revision of the license laws. With proper legislation the receipts of revenue from this source might be largely increased without detriment to either public or private interests.

As stated then a large portion of the time of the license department of this office is taken up by the scrutiny and issue of liquor licenses. The District supreme court having confirmed the power of the Commissioners to regulate the liquor traffic under existing law, they have prepared and issued rules which become operative at once. There is therefore no necessity for additional recommendations from this office.

The growth of our city is constantly developing changed conditions, showing the need of new legislation. Those who pay licenses as proprietors of hotels are brought into practical competition with proprietors of flats, boarding-houses, lodging-houses, etc., who pay little if any tax, and in many instances do the same business.

A moderate tax should be imposed upon all "public victualers," and the enactment should be so plain that there could be no evasion.

The tax on "peddlers" is too large. It encourages illegal practices, and it is believed that a large percentage of those who transact this business evade payment upon one pretext or another.

The tax on "produce dealers," both at large and in the several markets, is excessive. It should be reduced, and the burden of taxation be equalized by requiring those who now evade the tax on legal technicalities to pay.

Referring to our growth as a city suggests a question of growing importance. The rapid rise in the value of real estate located on the streets and avenues is turning attention to alleys and the centers of squares for the location of livery stables, coal and wood, or lumber yards. More specific regulations should be made concerning them and the rights of property owners affected by their proximity more clearly defined.

The question of "insurance" is a matter of interest to every citi-

zen. The District of Columbia within the past ten years has seen many phases. The total number of companies doing business here in 1878 and 1888 was divided as follows, viz :

	1878.	1888.
Foreign fire	93	112
Life	14	30
Accident	4	9
Total	111	151

The number of companies located in the District of Columbia was :

	1878.	1888.
Fire	8	11
Life	2	3
Accident		1

He who insures his property against loss by fire only to find, when that calamity has occurred, that the company upon which he relied is worthless, loses faith in the Government which suffers such a company to open its doors for business, and lowers his opinion of human nature.

It is a subject which in many States receives recognition through a special department, and stringent laws protect its citizens from fraud.

Life insurance is more important than fire. In the latter the deceived victim lives to proclaim the fraud and seek redress. In the former his family are the sufferers through his inability to protect them ; the law should do this.

This District, until recently scarcely protected at all in this respect, has been a field promptly occupied by the unscrupulous, who prey upon every defenseless community. The victims of the Anglo-American and Chesapeake Insurance Companies will not soon forget this fact. Washington is the capital of the nation, and a fraudulent company located here secures a prestige impossible elsewhere.

Many States require that insurance companies, before being allowed to do business, shall invest in real estate or deposit securities within its jurisdiction. It is a good rule, and might be adopted here with benefit to the community.

It is neither the province nor desire of this department to criticise the merits or demerits of the different kinds of insurance, but a large number of applications are being constantly received for the admission of insurance companies, based on the assessment plan. Some of them are located in distant States, and possibly are worthy of public confidence. But many of them have no reserve, and if they have, policy-holders in this District have no means of security beyond the good faith of the companies. The laws bearing on insurance are still insufficient, and it is hoped that the attention of Congress will be called to the matter at an early date.

78 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Statement of the assessed value of the real estate of the District of Columbia on June 30, 1888.

Washington:		
Taxable, on land	\$49,648,393	
Taxable, on improvements	53,237,650	
		\$102,886,043
District of Columbia, property of		2,288,333
United States, property of		105,486,386
Exempt from taxation		6,038,068
		<u>216,698,830</u>
Georgetown:		
Taxable, on land	\$1,981,332	
Taxable, on improvements	3,006,300	
		4,987,632
District of Columbia, property of		189,839
United States, property of		232,987
Exempt		340,488
		<u>5,750,946</u>
County:		
Taxable at \$1.50 on land	\$2,045,750	
Taxable at \$1.50 on improvements	1,750,350	
		3,796,100
Taxable at \$1.00 on land	2,910,428	
Taxable at \$1.00 on improvements	905,150	
		3,815,578
District of Columbia, property of		60,600
United States, property of		5,000,311
Exempt		812,078
		<u>13,484,667</u>
Total in the District of Columbia:		
Taxable:		
Washington		102,886,043
Georgetown		4,987,632
County		7,611,678
		<u>115,485,353</u>
Non-taxable:		
United States, property of		110,719,684
District of Columbia, property of		2,538,772
Exempt from taxation		7,190,634
		<u>235,934,443</u>
Total, real		
Personal property:		
Washington	\$10,901,263	
West Washington	689,464	
County	137,945	
		<u>11,728,672</u>
Total, real and personal		<u>247,663,115</u>

The assessed value of the taxable real estate in the District of Columbia on June 30, 1888, was \$115,485,353, and of personal property \$11,728,672.

AMOUNT OF TAX FOR 1888-'89.

Washington, \$102,886,043, at \$1.50	\$1,543,290.65
Georgetown, \$4,987,632, at \$1.50	74,814.48
County, \$3,796,100, at \$1.50	56,941.50
County, \$3,815,578, at \$1.00	38,155.78
Total, real estate tax	<u>1,713,202.41</u>
Personal, \$11,728,672, at \$1.50	175,930.08
Total, real and personal tax	<u>1,889,132.49</u>

The annual assessment of 1888-'89 shows the number and value of new houses taxable:

Washington, 1,640 new houses.	\$3, 752, 500
Two hundred and thirty less, torn down, etc.	151, 200
Georgetown, sixty-four new houses.	99, 000
Eight less, torn down, etc.	6, 700
County, 263 new houses.	224, 200
Twenty-four less, torn down, etc.	28, 350

Making the total of houses in the District June 30, 1888:

Washington.	32, 258
Georgetown.	2, 682
County.	3, 645

Total. 38, 585

This includes all, except the Government buildings.

Your attention is earnestly called to my recommendations in last year's report regarding licenses, personal taxes, and laws regulating sales by owners or agents from other cities, who solicit, sell, and deliver goods without paying tax or license of any kind.

GENERAL ASSESSMENT.

A general assessment of all real estate in the district will be made next year. The assessment then made will determine the tax for the ensuing three years.

By reference to the assessor's report of last year it will be seen that it was urged to have a law creating a board of assessors.

I hope this suggestion may yet be acted upon in time to have the benefits of such a board for this general assessment. Unless it is done in the next [this] session of Congress all the defects of the present system will be fastened upon our citizens for three years more.

The last general assessment made the aggregate assessed value about 50 per cent. of the true value of the property, when the law requires it to be the "fair cash value."

The tax levy at the last general assessment was in round numbers \$1,400,000; on 50 per cent. valuation, at a "fair cash valuation," the levy would have been \$2,800,000.

It has been agreed, for the purposes of taxation, that one-third should be deducted from this cash valuation; accepting this basis, without admitting its correctness, it would have made a true levy of tax of \$1,900,000 as against the levy of \$1,400,000; a loss of revenue by inaccurate assessment of \$500,000 each year, and for the three years of \$1,500,000.

This will occur next year if the present way of assessing is continued.

To pick up twelve men at \$5 a day to assess "from actual view" every piece of property and every house in three months, even if they were experienced in our property values and competent in all other respects, and do it correctly, can hardly be hoped; but when men are appointed who have had no experience in locating, assessing, and determining values, errors and mistakes of the gravest character must be the result.

If these errors and mistakes of assessment fell equally upon the tax-payers, it would not be such a serious matter; but it works altogether against the small tax-payers and in favor of the large tax-payers. For instance, when the subassessor has to value ground worth from 5 to 25 cents per square foot, he can't get far out of the way, but when the same man has ground worth from \$1.50 to \$25 per square foot he is en-

tirely at sea. His mistakes here make the great differences in our general aggregate of assessment.

A property worth \$5,000 is generally assessed at about \$4,000, or within 80 per cent. of its true value; a property worth \$100,000 is assessed at about \$20,000, or 20 per cent. of its true value. Ground worth \$15 to \$25 per foot is found on our books assessed at \$3 to \$5.

Experienced and competent assessors would assess all property within 33 per cent. of its true value; then rich and poor would bear an equal proportion of taxation. If this assessment should yield more revenue than is required, the rate of taxation might be reduced. It is the rate of tax, not a low, irregular, and unequal assessment, that invites investment.

I submit that the true and only remedy is a board of assessors who, after some experience, will be able to make a just and fair assessment, and beg to refer to a bill, submitted in my last report, to create such a board.

Another defect of the present system, and a most grievous one, is, that any appeal from the assessment must be made and determined in July and August, when a large number of those interested are out of town, and failing in those months to have the assessment corrected it must remain, right or wrong, for three years, not even the Commissioners having power to correct or change the assessment thus determined. The only hope is to get Congress to pass a bill of relief in each individual case.

Under the present system, the annual assessment of buildings erected during a tax year is, necessarily, defective and imperfect, for want of time and skilled assessors to go over the entire district and examine critically these improvements.

A careful examination convinces me that over \$20,000 of tax is lost each year by buildings overlooked and not taken up for taxation.

These estimates and conclusions are based upon the city assessments; the county assessment is still more glaringly inconsistent and unjust.

This matter is of such a serious character that I hope a strenuous effort will be made to correct our present system of assessment before another general assessment, with its mistakes and errors, goes into effect.

EXEMPTIONS.

The property exempted by Congress from taxation is assessed at \$7,000,000, and consists largely of colleges, schools, and hospitals. Most of these institutions charge for tuition, attendance, board, etc., but exemption is claimed on the ground that the revenues do not go into dividends or to the benefit of individuals.

The fact is, that the revenues of these institutions are largely used up in salaries for a corps of professors, teachers, assistants, and maintenance of extensive establishments.

Much complaint is made by the churches because the law compels a tax to be paid on ground while the edifice is in course of erection, or until "used for divine worship." The wording of the laws on exemption is, in most cases, ambiguous and greatly needs correcting. The laws on assessment, both of real and personal property, are so defective for the present needs of our community that I urge their immediate revision. The revision of the personal tax-law is very imperative. Attention has been called to the injury sustained by the District by the operation of the law levying a tax of $1\frac{1}{2}$ per cent. on mortgages or real estate notes, also the hardship imposed by this same tax on the building associations. These building associations should

be exempted, as they do very much to encourage thrift and good habits in the classes who have to save little by little, and in these associations find a safe and reliable place to deposit their savings as an earnest for a future house and home.

Very respectfully,

ROS. A. FISH,
Assessor.

To the COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

ESTIMATES.

ASSESSOR'S OFFICE,
Washington, D. C., October 5, 1888.

GENTLEMEN: I beg to refer to my estimates for last year, and my reasons for asking increase of compensation for some of the clerks.

The duties and responsibilities of the clerks in this office increase year by year with the increase of population and wealth of our city. The compensation should be sufficient to command and retain the very best service. The assessor's office is suffering by reason of an inadequate force and compensation.

I have the honor to submit the following estimate for the year 1889-'90, with the hope that it will receive your approval and earnest support:

ASSESSMENT BRANCH.

Assessor	\$3,000
Assistant assessor	2,000
Assistant assessor	1,800
One clerk	1,600
One clerk	1,400
One clerk and draughtsman	1,400
Four clerks, \$1,200 each	4,800
One clerk	1,000
	17,000

LICENSE BRANCH.

One license clerk	\$1,400
One inspector of licenses	1,200
One assistant inspector of licenses	900
	3,500
One messenger	840
Contingent expenses: Forage for horse, repairs of wagon, harness, etc.; printing, blanks, repairs of books, stationery, and miscellaneous	1,600
	22,940

A great deal of additional labor has been placed upon this office in the issuing of engineer's licenses and the inspection of insurance papers and all illuminating oils.

I need a messenger, to keep the different rooms in order. This has been imperfectly done by a laborer, who gives a portion of his time to this work.

In the above estimate are included two clerks, at \$1,400 each, and one at \$1,200, making \$4,000, now appropriated for on the collector's estimate. These clerks are under the direction of the assessor, and are employed in making out tax books and bills, which labor, after the consolidation in 1879, was transferred from the collector's office to this.

These clerks should be on the assessor's roll, as they are under his control, and will diminish the collector's estimate to the extent of \$4,000.

Very respectfully,

ROS. A. FISH,
Assessor.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

STATEMENT A.—*Value of personal property in the District of Columbia assessed for taxation from 1877 to June 30, 1889; rate, \$1.50 per \$100.*

Year.	Assessed value.	Amount tax.	Amount collected.	Year.	Assessed value.	Amount tax.	Amount collected.
1877.....	\$15,419,873.00	\$231,298.10	\$171,612.61	1884.....	\$11,311,622.00	\$169,674.33	\$157,441.55
1878.....	17,239,051.00	258,585.77	154,837.28	1885.....	12,795,934.00	191,939.01	166,360.48
1879.....	13,336,920.00	200,053.80	163,364.86	1886.....	12,658,949.00	189,884.24	160,006.92
1880.....	11,421,431.00	171,321.47	115,577.78	1887.....	11,934,245.00	179,013.68	154,287.74
1881.....	10,895,712.00	163,435.68	295,866.45	1888.....	10,943,458.00	164,151.87	150,058.37
1882.....	9,666,272.00	144,994.08	137,838.56	1889.....	11,728,672.00	175,930.08	.....
1883.....	9,028,812.00	135,432.18	142,973.38				

I again urge that the tax on real-estate notes and on the capital stock of building associations be exempted by appropriate legislation. Ar-rears of this tax, \$319,559.23.

ROS. A. FISH,
Assessor.

STATEMENT B.—*Value of real property in the District of Columbia, as assessed for taxation from 1871 to 1889, inclusive.*

Year.	Washington.	Georgetown	County.	Total.
1871.....	\$66,818,886	6,213,467	\$6,965,101	\$79,997,454
1872.....	62,421,331	6,036,434	6,500,000	74,957,765
1873.....	72,880,380	6,366,488	8,623,056	87,869,924
1874.....	80,539,782	6,272,010	9,621,280	96,433,072
1875.....	82,292,906	6,312,099	9,270,036	97,875,041
1876.....	78,818,934	5,849,317	8,784,433	93,452,684
1877.....	81,246,847	5,953,932	8,728,622	95,929,401
1878.....	83,101,484	6,028,041	8,480,365	97,609,890
1879.....	75,555,801	5,242,224	6,693,417	87,491,442
1880.....	76,085,940	5,291,313	6,603,103	87,980,356
1881.....	77,256,610	5,282,096	6,414,372	88,953,078
1882.....	78,515,793	5,266,943	6,525,759	90,308,495
1883.....	80,615,448	5,307,116	6,611,101	92,533,665
1884.....	80,293,418	4,013,888	6,541,368	90,848,674
1885.....	82,825,255	4,074,358	6,602,851	93,502,464
1886.....	85,132,151	4,160,222	6,760,956	96,053,329
1887.....	96,383,486	4,741,540	7,172,075	108,302,101
1888.....	99,430,297	4,908,345	7,406,186	111,744,830
1889.....	102,886,043	4,987,632	7,611,678	115,485,353

ROS. A. FISH,
Assessor.

STATEMENT C.—*Statement showing amount of tax and amount collected, per cent., and amount of arrears of real-estate tax, from 1873 to June 30, 1888.*

Year.	Amount of tax.	Amount collected each tax year.	Per cent.	Year.	Amount of tax.	Amount collected each tax year.	Per cent.
1873.....	\$1,428,341.42	\$1,426,957.27	99.5	1883.....	\$1,365,365.34	\$1,291,209.59	94.5
1874.....	1,885,255.86	1,846,382.75	97.1	1884.....	1,338,587.34	1,255,329.88	93.0
1875.....	2,811,922.38	2,737,826.77	98.0	1885.....	1,383,489.55	1,266,120.23	91.5
1876.....	1,401,790.25	1,377,034.69	98.2	1886.....	1,421,552.09	1,240,834.51	87.2
1877.....	1,438,941.01	1,390,634.26	96.2	1887.....	1,605,858.09	1,407,574.21	87.6
1878.....	1,447,187.67	1,408,571.53	97.3	1888.....	1,657,317.34	1,462,790.77	88.3
1879.....	1,320,612.00	1,271,181.98	96.9	Arrears col- lected*.....	.....	687,961.22	.....
1880.....	1,297,934.24	1,234,294.35	95.0	Total.....	24,448,391.96	23,820,391.74	97.4
1881.....	1,311,969.34	1,249,196.72	95.2				
1882.....	1,332,268.04	1,266,491.01	95.0				

* Collected in years subsequent to the tax year.

Showing the arrears of real-estate tax on June 30, 1888, to be \$628,000.22, which will be reduced in 1889 by the usual collection of the previous year \$100,000, and under operation of the act of June 25, 1888, remitting penalties and interest to 6 per cent. interest per annum on certain arrears, will be further decreased \$100,000.

There is a large amount of tax in this balance which has been canceled, such as exempt, etc., property, found to be such after the charge as "taxable" was made. This can not be corrected without legislation, and is carefully estimated to be at least \$100,000, so that the real arrears of tax on real estate is not over \$300,000.

I find, upon examination, that about the same amount is in arrears each year, and on the same properties, for the past fifteen years, proving that this arrearage is on property and by owners that will never pay until compelled by positive sale and transfer of property.

ROS. A. FISH,
Assessor.

D.

SPECIAL ASSESSMENTS.

OFFICE OF THE COMMISSIONERS, DISTRICT OF COLUMBIA,
SPECIAL ASSESSMENT DIVISION,
Washington, September 19, 1888.

GENTLEMEN: I have the honor to submit the following report for the year ending June 30, 1888:

DRAWBACK CERTIFICATES.

Total amount of drawback certificates found due by revision of the special assessments, under acts of Congress approved June 19, 1878, June 27, 1879, and July 5, 1884, exclusive of amount due to unknown holders of lien certificates not presented	\$954,551.17
Total amount of drawback certificates issued	942,831.95
Awaiting satisfactory evidence of ownership	11,719.22
Amount of such drawback certificates redeemed :	
In payment of general taxes as per last report.....	\$381,131.55
Received during the year	305.57
	381,437.12
In payment of special assessments as per last report..	549,481.55
Received during the year	571.42
	550,052.97
Outstanding	11,341.86
Total issue of drawback certificates to June 30, 1888.....	942,831.95
Drawback certificates on hand awaiting issue as per last report.....	11,761.74
Claims allowed during the year ending June 30, 1888.....	353.97
	12,115.71
Drawback certificates issued during the year ending June 30, 1888.....	396.49
Awaiting satisfactory evidence of ownership	11,719.22

A detailed statement of which will be found in Appendix I.

EIGHT PER CENT. CERTIFICATES OF INDEBTEDNESS.

Amount outstanding, as per report to June 30, 1887, par.....	\$190,400.00
Amount redeemed in payment of special assessments	
omitted in last report, May, 1887.....	\$100.00
June, 1887.....	600.00
	\$700.00
Amount redeemed in payment of special assessments, as per	
records of this office, during the year, par.....	63,650.00
Redeemed by the commissioner of the sinking fund, as per	
information kindly furnished from his office, par.....	16,450.00
	80,800.00
Outstanding, par	109,600.00
To which may be added accrued interest at 6 per cent. per annum from maturity.	

UNCOLLECTED SPECIAL ASSESSMENTS PLEDGED TO THE REDEMPTION OF THE EIGHT PER CENT. CERTIFICATES OF INDEBTEDNESS.

Amount outstanding June 30, 1887, as per annual report.....	\$341,675.74
Collected for account of lien certificates, exclusive of interest	\$85,707.19
Collected for general account, no lien certificate issued.....	621.19
	86,328.38
Outstanding.....	
	255,347.39

This statement does not include the accrued interest upon lien certificates held by the commissioner of the sinking fund, nor the amounts charged to the several street-railroad companies which remain unpaid upon the records of this office.

LIEN CERTIFICATES NOT HELD BY THE COMMISSIONER OF THE SINKING-FUND.

Amount of outstanding lien certificates issued by the late board of public works and not held by the commissioner of the sinking fund, for the redemption of which there are outstanding special assessments (for detailed statement, see Appendix II), par.....	\$66,623.90
Amount of outstanding lien certificates subject to redemption in drawback certificates upon presentation and demand (for detailed statement see Appendix III), par.....	223.71
Total outstanding lien certificates exclusive of interest.....	66,847.61

The act of Congress approved July 5, 1884, in connection with the act approved June 19, 1878, has enabled this office to effect a settlement with the holders of these lien certificates for the amount of the reduction by revision of the assessments, with the exception of the \$223.71 above stated, which lien certificates are held by owners who have not made themselves known to the office.

The amount of drawback certificates received for account of the sinking fund, and after examination transmitted to the auditor of the District of Columbia, in accordance with orders dated April 17, 1880, July 1, 1880, and March 8, 1881, during the year was \$571.42, a detailed statement of which will be found in Appendix IV.

The amount of lien certificates held by third parties, settled by surrender and payment with interest was \$10,413.02, a detailed statement of which will be found in Appendix V.

The amount of outstanding lien certificates, held by third parties, for which money was paid into court, by the property owners, is \$2,472.73, a detailed statement of which will be found in Appendix VI.

This money was paid into court in 1873, and subsequently turned over to J. A. Magruder, treasurer of the board of public works, and not applied to the payment of these lien certificates.

These lien certificates constitute valid claims against the District and are bearing interest according to the face of the lien certificates at the rate of 10 per centum per annum.

I am of the opinion that the holders of these lien certificates would accept drawback certificates in settlement if Congress would authorize such issue by acts somewhat similar to those of June 19, 1878, and July 5, 1884. The amount involved is not large, but the District having misapplied the money collected through the court and which belonged to the holders of these lien certificates, justice seems to demand that payment therefor should be made in some form without compelling them to apply to the courts for relief.

Upon demand from the holders of certain lien certificates a number

of pieces of property were sold February 23, 1888, after due advertisement as required by law, the assessments against which remained unpaid.

Appendix VII is a detailed statement of the property sold and the lien certificates satisfied by such sale.

OLD CORPORATION SPECIAL ASSESSMENTS COLLECTED DURING THE YEAR ENDING
JUNE 30, 1888.

Improvement of streets, sewers, etc.....	\$5,005.21
Interest	8,438.30
	13,443.51
For pumps, lighting street, etc. (no interest)	335.22
Total.....	13,778.73

SPECIAL ASSESSMENTS FOR WORK DONE UNDER THE COMPULSORY PERMIT SYSTEM.

Collected during the year ending June 30, 1888..... \$5,905.39

On assessments of this class no interest is collected, in the absence of any law authorizing such charge.

The existing law makes the assessment a lien upon the property, but the absence of any interest or penalties offers no inducement for the prompt payment, and very little attention is paid by property owners to assessments of this class, and payment appears to be deferred indefinitely.

In closing my report, I desire to bear testimony to the fidelity with which the clerks in this office have discharged their duties, and recommend them to your kind consideration.

Very respectfully,

WM. OSCAR ROOME,
Chief of Special Assessment Division.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX I.—Statement of drawback certificates awaiting satisfactory evidence before issue.

Number of certificate.	To whom assessed.	Square	Lot.	Street or avenue.	Amount.
1429	Isabella F. McFarland.....	169	N.....	F.....	\$57.71
1861	Dennis O. Connell.....	465	20.....	Sixth.....	32.64
1868	Michael Welch.....	502	23.....	Sixth.....	35.30
2080	C. L. and J. D. Ketchum.....	248	Of S. 8.....	K.....	5.28
2243	Frederick Warren.....	983	Of 10.....	G.....	5.61
2340	James H. Rowland.....	628	14.....	New Jersey.....	12.22
2365	Thomas H. Wheatley.....	914	S. 15.....	Ninth.....	.63
2400	John H. W. Burley.....	195	S. 69.....	O.....	12.67
2438	Mary Summerscale.....	447	2.....	N.....	6.96
2469	Antonio Carnevero.....	346	Of 5.....	Eleventh.....	4.55
2473	Jeremiah Carroll.....	72	12.....	Twenty-first.....	17.46
2478	Cornelius Donovan.....	184	Of S. 18.....	Sixteenth.....	3.56
2480	Mary M. Evans.....	339	S. 12.....	Eleventh.....	5.25
2565	George B. Balch.....	250	22.....	I.....	3.23
2566	do.....	250	23.....	I.....	12.43
2598	James McManners.....	122	5.....	Twentieth.....	.66
2617	J. T. Sullivan.....	456	Of 11.....	Seventh.....	13.49
2618	do.....	456	Of 10.....	Seventh.....	13.49
2671	Augustus Koch.....	378	O.....	D.....	2.70
2727	J. L. Fowler.....	465	70.....	Seventh.....	1.56
2760	Henry Martin.....	405	13.....	Eighth.....	27.33
2865	W. O. Lumsden.....	43	159.....	Gay.....	23.22

APPENDIX I.—Statement of drawback certificates etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
2876	Joseph Pypher.....	527	Of S. 3	Fourth	\$4.99
2877	do	527	Of S. 2	Fourth	3.34
2886	Frederick W. Jones	933	S. 15	Ninth	2.85
2888	Maria E. Jarvis	1005	Of 13	G	8.40
2910	John Wagner	959	Of 3	G	13.11
3000	William Doniphan	413	9	F	17.33
3067	Minerva Rogers	222	1	Fourteenth	5.68
3112	J. K. Plant	378	Of 5	D	1.33
3158	Thomas N. Adams	177	S. 2	Sixteenth	21.92
3168	C. E. Bopp	977	25	Eleventh	24.21
3203	George C. Talbert	977	23	Eleventh	21.36
3217	Henry and John McShane	177	S. 5	Sixteenth	21.91
3230	Simeon Newcomb	313	B	Eleventh	20.38
3332	James Reich	623	5	H	13.89
3341	Milton Woodworth	207	55	S	8.92
3352	Leonard S. Chapman	339	8	Eleventh	14.63
3501	Henry Walter	682	S. D	Delaware	15.20
3553	William Moore, trustee	935	S. 23	Ninth	.62
3554	do	935	S. 24	Ninth	.64
3566	Lucy R. Reid <i>et al</i>	200	10	I	1.66
3578	Agnes Scheppler	265	20	Fourteenth	9.13
3587	Benjamin A. Farless	207	S. 81	Fourteenth	8.38
3588	Frederick Kroell	210	S. 29	Rhode Island	.57
3622	George W. and S. L. Phillips	Res. D.	15	Maine	3.93
3666	Josiah M. Vale	202	S. 30	Fourteenth	.30
3810	A. and E. D. Sharp	240	101, 102	Corcoran	6.59
3996	Robert B. Cloakey	161	S. 6	Connecticut	27.54
4019	Columbus Hall	983	Of 9	G	9.15
4112	John Burke	1050	Of 3	Maryland	5.40
4113	do	1050	Of 4	Maryland	9.74
4122	Charles G. Barber	134	S. 4	Q	2.54
4128	Nehemiah Cobb	1005	Of 2	Maryland	9.96
4144	John L. Joyce	207	S. 74	Fourteenth	8.22
4147	Ellen E. Dyer	256	3	D	17.42
4151	John France	292	1, 2	D	14.07
4155	Hannah A. Foster	227	6	D	3.50
4214	W. B. Stone, jr., heirs	292	1	D	15.64
4283	Caroline S. Peugh	346	Of 5	Eleventh	27.35
4339	James Crehan	515	Of 25	Fourth	10.22
4345	M. E. and L. H. Herndon	338	Of S. 16	Eleventh	.53
4346	Masselon Harrison <i>et al</i>	338	Of S. 14	Eleventh	.46
4353	James F. Dana	181	103	P	25.49
4379	Abel G. Davis	570	Of S. R	E	6.44
4391	L. Bernhard <i>et al</i>	194	65	P	33.16
4402	Rachel Butler	536	Of 5	Fourth	4.07
4413	Nicholas Becker	527	Of S. 2	Fourth	1.78
4425	Letitia Allen	455	2	F	10.14
4445	John Gaegler	S. of 516	Of 19	Fourth	2.38
4631	Levi W. Kimball	242	S. 1	Fourteenth	.32
4655	Margaret Kelly <i>et al</i>	828	S. 7	M	.02
4657	do	829	S. 35	M	.05
4734	Catharine A. Barrett	319	Of 14	Eleventh	15.00
4845	F. R. Windsor	934	44	H	3.24
4846	Harrison Williams	101	22	I	1.18
4848	Thomas M. S. Williams	293	Of 5	C	.63
4860	Isaiah and E. Waters	752	8	H	1.89
4861	Dennis Callahan	366	Of S. 40	Columbia	.29
4928	Amanda M. Faron	502	6	N	5.50
4935	William M. Moore	481	3	Sixth	11.74
4949	E. C. Gessford	269	Of 4	Thirteen-and-a-half	17.37
4953	James Parshall	525	Of 2	Fourth	2.37
4955	J. D. Harrison	343	Of 2	I	34.46
4966	Sarah Ann Griffin	530	10	Fourth	3.72
4967	Michael Horrigan	530	Of 6	Fourth	1.63
5054	Clement Robinson	525	Of 2	Fourth	18.98
5056	William Lamborn	338	Of S. 18	Eleventh	2.20
5131	Charles Myers, heirs	48	84	First	10.75
5132	Mary A. Sullivan	1027	22	H	1.55
5168	Thomas Milburn	777	9	H	2.59
5177	George Miller	516	Of 24	K	2.70
5178	do	516	Of 25	K	2.01
5204	John Foller	518	S. 1	Fifth	7.21
5244	Mary Day	163	Of S. 27	Connecticut	11.67
5290	T. J. Robinson	401	Of 5	Ninth	7.04
5301	Ignatius Ruppert	N. of 515	Of 7	New York	3.41
5305	Sarah Kane	859	19	H	2.59
5307	Alexander Speir	369	Of 20	Ninth	28.35
5311	J. B. Oliver	401	Of 8	Ninth	11.05

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
5324	Mary Ann Sheekells	317	Of 12	Eleventh	\$15.00
5337	Doris Dable	517	Of 27	Fifth	10.42
5378	Maria Bailey	485	S. 28	Fifth	13.21
5423	George Norbeck	378	Of 4	D	1.76
5473	Truman Brush	904	Of 28	Eighth	4.16
5474	Frank Beckert, Sr.	904	Of 28	Eighth	2.33
5499	John D. Schneir	513	Of 13	Fifth	3.25
5506	Charles Kunmer	454	12	Seventh	13.57
5534	Charles W. Robinson	516	Of 28	Fourth	2.02
5535	P. Murtaugh	515	Of 25	Fourth	2.09
5540	William Lamborn	338	Of S. 19	Eleventh	2.51
5571	Francis E. Upperman	264	S. I.	Thirteen-and-a-half	4.18
5580	Harrison P. Lewis	448	60	Sixth	18.06
5591	Louis Heilburn	446	L	Sixth	18.92
5612	George C. Cornwell <i>et al.</i>	226	6	E	3.30
5643	John Foller	555	Of 4	New York	5.47
5652	Mary J. Hurst	48	85	First	4.46
5692	John Lyons	40	4	Twenty-fourth	24.85
5695	John F. Mountenney	250	Of 1	H	.30
5709	Eunice B. Sawyer	37	Of 7	Twenty-fourth	5.31
5719	N. C. Towle	532	Of 5	Fourth	17.65
5723	John W. Shiles	532	S. B.	E	9.03
5734	Mary Miller	314	S. 34	Eleventh	15.44
5738	Sarah Lamphere	37	S. C.	Twenty-fourth	3.30
5868	Mary Ann Harvey	349	S. A.	Tenth	2.05
5882	John Saul	455	11, 12	Seventh	10.06
5888	George Savage	348	Of 1	D	1.75
5904	Annie Wilson	381	Of 5	Tenth	.58
5929	John Roney	324	Of 4	Twelfth	5.27
5933	S. L. Phillips	457	S. P.	D	28.22
5956	Margaret Randall <i>et al.</i>	638	S. M.	First	20.55
5958	John L. Kidwell	348	Of 3	D	11.48
5961	Almon Bryant	828	S. 14	Fifth	8.07
5989	Roger Adamson	454	12	Seventh	6.58
5998	H. W. Blunt	325	Of 3	Twelfth	3.98
6002	Joseph Follansbee	571	S. 42	First	.52
6005	Henry Eicholtz	527	Of S. 2	Fourth	2.12
6009	Abel G. Davis	570	Of S. Q	E	4.39
6010	Joseph Follansbee	571	Of S. 14	First	.19
6012	Thomas Downey	515	Of 25	Fourth	2.09
6015	Henry Evans	526	Of 4	Fourth	3.20
6044	John Casey	982	7	H	3.62
6060	H. McLinden	343	Of 2	I	.33
6064	John Lynch	133	S. E.	Nineteenth	21.59
6068	David M. Kelsey	365	Of 99	Tenth	12.73
6074	Isaac Dorsey	514	Of 8	New York	4.08
6083	George H. Edmonds	525	Of 6	New York	5.67
6097	Richard Trueman	516	Of 27	Fourth	4.10
6161	John Rogers	457	Of 3	D	9.69
6193	John M. Roberts	904	Of 21	Eighth	7.80
6248	Lavinia Center	257	A	Thirteen-and-a-half	82.32
6423	Cornelius Lent	366	S. 15	O	16.00
6430	Joseph E. Snodgrass	417	Of 13	O	1.17
6431	William R. Todd	417	S. M	O	9.69
6454	Sophia Warner	512	Of 16	O	.77
6456	John Slater	512	S. 40	O	.48
6458	John Slater	512	S. 39	O	.50
6462	Robert Mahoney, trustee, M. E. Lloyd	545	Of S. 24	M	9.33
6463	do	545	Of S. 25	M	1.20
6472	Edward Edwards, trustee	163	Of S. 21	L	10.56
6497	W. W. Curtis	74	Of 150	Market space	2.62
6510	John F. Niedfeldt	516	Of 27	Fourth	1.82
6515	Joseph Rakeman	516	Of 27	Fourth	2.31
6532	John B. Lord	594	Of 6	Fourth	3.53
6533	Henry Lybrand	629	S. O	First	.48
6559	William Windom	686	26, 27	B	2.79
6560	Meyer Silver	686	20	B	.55
6568	James Watson	313	S. 6	Eleventh	18.76
6578	Joseph Edwards	211	Of 8	Fifth	10.56
6580	do	211	S. 28	Fifteenth	10.56
6654	Margardt Lenox	380	Of 5	Tenth	17.03
6668	Joseph W. Boucher	16	Of 41	E. and W. Market space	1.59
6671	William C. Magee	48	Of 16	Prospect	11.27
6694	C. Boyer	539	Of 19	F	1.65
6698	Cornelius Shea	829	S. 11	Fifth	32.29
6702	W. A. Franklin, trustee	725	Of 10	First	11.91
6718	Francis Ochsenaeiter	450	8	Seventh	13.58
6720	J. B. Sanborn and C. A. King	454	11	Seventh	11.42

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
6730	H. B. Owen	383	Part	B	\$19.02
6734	J. G. Robinson	429	14	Seventh	11.92
6735	Mary Ann Keyworth	429	1	Seventh	10.89
6748	Anna M. Wilcox	79	Of 11	Twenty-second	19.83
6755	Lucian Hayden	239	S. 6	R	8.88
6756	Chas. A. Harroday	302	S. 41	Eleventh	8.35
6801	Ellen Deeble	110	Of 28	High	9.30
6846	D. A. Straker			Seventh-street road	26.25
6967	P. A. Byrne <i>et al</i>	454	7	G	4.84
6972	Eva Seldner	570	Of S. G	D	60.33
7073	James F. Caden	450	19	Seventh	11.41
7076	Edward Champlin	325	Of 5	Twelfth	6.42
7144	Nicholas Vermillion	302	Of S. 57	Eleventh	2.51
7145	do	302	Of S. 56	Eleventh	3.15
7153	John S. Hickman	829	S. 19	Fifth	6.45
7159	Wm. McGobuck	725	S. C	First	10.79
7197	Matilda Kohler	305	S. 1	Eleventh	9.32
7200	John L. Kidwell	289	S. 32	Thirteenth	23.45
7208	John Knower	167	S. 37	Fifteen-and-a-half and Sixteen-and-a-half	12.38
7216	Chas. Kiernan	536	Of 6	Four-and-a-half	25.61
7217	A. Robb	539	Of 11	Four and-a-half	13.29
7228	H. F. Maul, trustee	355	Of S. 6	G	1.17
7232	W. H. Martin	368	Of 12	Tenth	23.00
7241	William M. Shuster	423	Of 11	Seventh	8.86
7291	H. Wetzell	110	Of 31	High	12.80
7300	Charles Myers	101	Of 17	High	12.97
7323	Israel B. Thompson	344	Of S. 11	Tenth	51.77
7346	H. W. Drakely			Seventh-street road	29.48
7500	John A. Simons	447	S. H	O	9.64
7733	John Casey	522	S. 3	N	3.26
7734	Patrick H. McNantz	867	14	Sixth	.03
7752	Wm. E. Tuck	834	17	Sixth	.02
7753	do	834	14	Sixth	.02
7754	do	834	16	Sixth	.02
7853	Thomas T. Crittenden, trustee	28	Of 20	K	4.27
7968	Robert White	16	Of 41	Bridge	32.10
7976	James Devlin	37	19	Twenty-third	12.84
7978	J. M. Schofield	38	Of 12	Bridge	113.52
7979	George Eberly	38	Of 11, 10	High	5.45
7984	Samuel Miller	40	2	I	19.47
7985	Elizabeth V. Welch	40	4	I	23.39
7994	W. H. Goodacre	55	Of 8	Twenty-third	21.81
7995	A. H. Herr	59	106	First	3.53
7998	Samuel Hein	61	99	First	25.95
8000	David Edes and C. Bodisco	64	Of 147	Green	5.80
8025	Wm. E. Tuck	834	15	Sixth	.03
8259	John Cherry	104	1	Twentieth	16.76
8304	Ann Phillips	117	Of 2	L	12.19
8305	do	117	Of 2	L	12.20
8308	Francis R. Copeland	118	Of 8	I	14.10
8312	Wm. H. Phillip	126	Of 31	Seventeenth	6.49
8317	Granville Malcolm	134	S. 10	Nineteenth	5.13
8318	do	134	S. 11	Nineteenth	4.86
8324	H. M. Lansdale, trustee	142	Of 14	Eighteenth	14.97
8325	Elizabeth E. Savoy	158	Of 14	N	55.53
8326	Saml. L. Bryan	159	S. 30	Rhode Island ave.	4.10
8328	Charles H. Moulton	210	S. 30	Rhode Island	.57
8338	Fannie Smith	163	7	K	21.15
8343	William Thompson	166	Of S. 23	Seventeenth	30.46
8345	Francis B. Stockton	167	22	Fifteen-and-a-half and Sixteen-and-a-half	14.93
8346	Benjamin Farrar, trustee	167	Of 1	Madison and Jefferson Places.	9.06
8348	James Alden	167	Of 24	Fifteen-and-a-half and Sixteen-and-a-half	9.36
8355	Nehemiah Cobb	179	Of S. 4, S. 5	Q	3.96
8359	John Hitz	180	40	Q	12.86
8361	Ella Mason	180	S. 49	Sixteenth	43.19
8368	Edward Foskey	181	S. 28	O	13.33
8371	James H. Wright	182	58	Sixteenth	41.39
8372	John Connolly <i>et al</i>	182	52	Sixteenth	41.40
8376	William Carter	183	Of S. 15	Sixteenth	28.61
8377	H. V. Byington	184	1	K	71.02
8385	Lloyd P. Pumphrey	193	S. 86	Fifteenth	27.83
8386	Charles T. Davis	193	92	Q	11.98
8387	William Miller	194	9	P	35.30
8391	Julian W. Dean	195	S. 68	O	12.67

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
8396	Perry and M. Goodwin.....	197	18.....	M.....	\$26.30
8406	J. T. Langley.....	401	Of 8.....	Ninth.....	6.85
8407	Jerry L. Page.....	401	Of 8.....	Ninth.....	5.39
8409	Martha Isherwood.....	402	12.....	Eighth.....	40.80
8410	Rose M. Kleiber.....	403	Of 4.....	Ninth.....	.14
8411	William H. Ward.....	403	11.....	Eighth.....	35.15
8417	G. A. Sandford.....	405	Of 6.....	Ninth.....	11.22
8419	H. H. Wurdeman.....	405	Of 5.....	Ninth.....	40.88
8425	Morgan Donoho.....	407	Of 6.....	Ninth.....	25.56
8426	James E. Law.....	413	13.....	F.....	10.89
8435	Frederick Warner.....	422	Of S. H.....	Eighth.....	12.71
8436	do.....	422	Of S. I.....	Eighth.....	7.17
8459	Rose B. Darrell.....	446	E.....	Sixth.....	8.82
8460	William Lord.....	447	1.....	N.....	12.55
8462	T. L. Hanna and F. Jones.....	447	Of 10.....	Seventh.....	10.86
8463	Mary E. Shelly.....	447	S. 9.....	Seventh.....	8.18
8468	Sarah H. Waring.....	448	Of S. 55.....	N.....	23.91
8472	Ann E. McLaughlin.....	450	21.....	Seventh.....	11.42
8475	Patrick O. Donnoghue.....	454	11.....	Seventh.....	6.53
8495	Thomas Summerscales.....	S. of 475	S. 3.....	Rhode Island.....	.57
8496	George D. Burch.....	478	23, 24.....	Sixth.....	21.66
8497	Edward Gallant.....	479	28.....	Sixth.....	28.67
8498	Robert Clarkson.....	481	Of 14.....	Fifth.....	4.47
8499	Isaac Rosenthal.....	485	S. 27.....	Fifth.....	13.21
8507	George W. Rothwell.....	206	65.....	Pierce Place.....	7.54
8511	Addison M. Smith.....	206	122.....	Pierce Place.....	6.04
8512	Edwin Potbury.....	206	116.....	Pierce Place.....	6.04
8513	Thomas Gardner.....	206	113.....	Pierce Place.....	6.04
8515	Harmon Burns.....	206	19.....	S.....	6.82
8518	Charles F. Clauson.....	207	53.....	S.....	8.86
8519	John Henderson.....	207	60.....	S.....	8.78
8522	Noah L. Jeffries.....	207	S. 87.....	Fourteenth.....	33.04
8523	George W. Riggs <i>et al.</i>	208	S. 102.....	Fourteenth.....	.37
8524	G. W. Riggs and G. H. Plant.....	208	Of 102.....	Fourteenth.....	41.30
8525	M. W. McCartney.....	208	S. 12.....	Q.....	15.85
8526	Elisha Goddard.....	208	S. 100.....	Fourteenth.....	41.30
8528	C. C. Willard.....	209	Of S. 19.....	Q.....	5.97
8531	George H. Plant.....	210	S. 43.....	Fifteenth.....	8.73
8532	Charles H. Moulton.....	210	S. 31.....	Rhode Island.....	.57
8534	F. W. Pratt.....	211	N.....	Fourteenth.....	33.05
8535	George H. Brown.....	211	S. R.....	Rhode Island.....	.57
8541	Edward F. Beale.....	212	78.....	N.....	39.31
8542	John F. Cook, tr.....	214	S. 15.....	Vermont.....	32.39
8543	William Wall.....	214	S. 16.....	Vermont.....	15.46
8550	Hugh McCullough.....	217	2.....	K.....	44.31
8567	Johnson Hellen.....	223	Of 1.....	G.....	66.90
8570	H. S. Bowen, tr.....	227	Of 11.....	E.....	3.03
8575	D. Naylor.....	234	S. 24.....	Fourteenth.....	.29
8579	do.....	234	S. 20.....	Fourteenth.....	.30
8580	do.....	234	S. 19.....	Fourteenth.....	.30
8594	Cornelia V. Godey.....	238	S. 37.....	Fourteenth.....	.25
8595	do.....	238	S. 38.....	Fourteenth.....	.29
8596	Henry Jackson.....	238	S. 34.....	Fourteenth.....	.25
8597	do.....	238	S. 36.....	Fourteenth.....	.25
8598	do.....	238	S. 35.....	Fourteenth.....	.25
8602	Zalmon Richards.....	240	19.....	Corcoran.....	4.39
8603	do.....	240	23.....	Corcoran.....	4.39
8604	Levi W. Kimball.....	242	S. 1.....	Fourteenth.....	38.00
8605	William P. Thompson.....	242	S. 54.....	Vermont.....	39.24
8607	Florant H. Meline.....	243	2.....	N.....	40.46
8610	Moses Kelly, trustee.....	247	Of 4.....	Massachusetts.....	30.01
8613	Ellen T. Cowen.....	247	M.....	L.....	27.07
8617	George W. Drew.....	248	Of 8.....	K.....	32.56
8622	S. Pettigrew Bowen.....	248	25.....	Fourteenth.....	54.06
8628	Mary Cratley.....	N. of 508	S. 4.....	Rhode Island.....	12.07
8636	Edward Brooks.....	529	17.....	Third.....	12.38
8647	George Burgess.....	240	S. 66.....	Q.....	10.19
8662	James Taylor.....	241	Of S. 55.....	Q.....	1.99
8684	Mary Ann Gibson.....	252	S. 1.....	Thirteenth.....	31.44
8685	Joseph Abbott.....	252	Of 1.....	Thirteenth.....	34.91
8686	do.....	252	Of 1.....	G.....	175.26
8688	Euphemia Manning.....	254	24.....	Thirteenth.....	66.62
8689	Zephaniah Jones.....	256	8.....	E.....	6.88
8690	do.....	256	Of 9.....	E.....	16.45
8691	David G. Day.....	256	2.....	D.....	17.36
8692	E. Schwinghammer.....	257	S. I.....	Thirteen-and-a-half... Thirteen-and-a-half...	12.92
8697	C. A. Reardon.....	263	Of S. A.....	Thirteen-and-a-half... Thirteen-and-a-half...	7.15
8711	Chester A. Colt.....	284	23.....	Twelfth.....	.38

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
8716	Eddie S. Warren	285	Of 8.....	I.....	\$0.33
8718	Maurice Reidy	286	Of 8.....	Thirteenth	10.05
8726	Noah H. Swayne	290	Of 4.....	E.....	43.87
8731	Rebecca B. Haslip	291	Of 12.....	Twelfth	17.20
8733	C. and R. Colman	292	2.....	D.....	10.77
8734	A. Provost, trustee	292	Of 4.....	Thirteenth	82.26
8735	Ulysses Ward	293	Of 1.....	Twelfth	9.86
8736	C. Puckhaven	293	Of 17.....	Twelfth	6.39
8739	Wilson E. Brown	294	Of 2.....	C.....	16.11
8740	John J. Sullivan	294	A.....	C.....	13.59
8741	Josephine D. Hicks	296	Of 21.....	Twelfth	8.13
8743	John H. Clarke	297	S. L.....	Twelfth	31.29
8744	F. Dankworth	297	S. N.....	Twelfth	7.95
8745	John Welsh	299	1.....	Twelfth	78.91
8766	J. D. Harris			Seventh-street road ..	.05
8767	C. C. Caruthers			Seventh-street road ..	.04
8768	H. N. Drakeley			Seventh-street road ..	.03
8775	D. A. Straher			Seventh-street road ..	.03
8778	Jane D. Jackson			Seventh-street road ..	.03
8782	Josiah Whitney			Seventh-street road ..	.02
8785	Frederick Snyder's heirs ..			Seventh-street road ..	.02
8795	William N. Caldwell	Of 85	Of 158.....	High	.88
8799	Margaret Minor	288	Of 15.....	H.....	26.44
8805	I. G. Naylor	515	102.....	Fourth	1.75
8812	F. Espota, trustee	903	S. L.....	Eighth	3.69
8828	Addison M. Smith	206	118.....	Pierce Place.....	6.04
8840	James F. Jackson	454	14.....	Seventh	21.76
8844	John O. Evans	250	Of 14.....	Fourteenth	49.65
8852	W. T. and R. C. Warthaus ..	110	Of 31.....	High	12.80
8854	Susan Decatur	167	29.....	Seventeenth	65.94
8859	Henry Lindenkohl	179	S. 44.....	Sixteenth	23.01
8860	S. B. Perkins	184	Of S. 20	Sixteenth	24.90
8939	Henry Wills, trustee	165	17.....	Connecticut	7.93
8954	W. D. C. Murdock	90	7.....	Connecticut	20.97
8963	Robert B. Cloakey	161	S. 6.....	Connecticut	9.75
8968	J. C. Bancroft Davis	165	18.....	Connecticut	7.94
9002	Alfred G. Haley	306	S. 2.....	Eleventh	14.40
9003	do	306	S. 7.....	Eleventh	14.42
9006	Anna Williams	313	Of 3.....	Twelfth	.37
9021	Benj. F. and R. F. Morsell ..	319	Of 14.....	Eleventh	22.13
9022	Sarah P. Woodward	319	Of 16.....	Eleventh	22.13
9030	A. Lee	324	Of 5.....	Twelfth	3.65
9032	E. Coolidge	325	4.....	Twelfth	21.71
9036	Wm. Scrivener	333	S. 16.....	Eleventh	13.11
9037	Thomas Green	335	4.....	Eleventh	16.68
9040	Leonard S. Chapman	339	12.....	Eleventh	14.63
9041	do	339	11.....	Eleventh	14.63
9043	do	339	9.....	Eleventh	14.63
9049	Walter S. West	340	S. 18.....	Eleventh	16.04
9050	J. L. Roberts	340	Of 11.....	Eleventh	7.22
9052	Abraham Marshall	341	S. G.....	Eleventh	16.13
9053	do	341	S. H.....	Eleventh	16.13
9054	Isaac Hertzberg	343	Of 5.....	Eleventh	17.25
9059	Sophia M. White	345	Of 12.....	Tenth	18.10
9060	L. S. Woodward, trustee	345	Of 12.....	Tenth	22.24
9064	Charles V. Gordon	345	Of 8.....	Eleventh	18.00
9065	Sophia M. White	345	Of 12.....	Tenth	23.69
9066	Michael Shanks	346	Of 5.....	Eleventh	18.58
9069	James Carter	346	Of 5.....	Eleventh	9.94
9076	W. J. Sibley and B. F. Guy ..	348	E. 1 of 2	D.....	2.20
9077	Jacob E. Lyons	349	Of 1.....	Tenth	18.59
9081	Frederick Valk	350	Of 1.....	Tenth	1.30
9085	Annie R. Gilbert and J. Whitney ..	361	Of S. 36	Tenth	35.43
9118	L. H. Stevens	366	S. 11.....	Ninth	2.10
9119	Lucy C. Allen	366	O.....	O.....	14.71
9122	James M. McNair	366	S. 60.....	P.....	5.61
9126	Henry Searle	368	Of 14.....	Ninth	15.79
9127	do	368	Of 15.....	Tenth	.47
9128	do	368	Of S. 15	Tenth	.77
9129	Margaret A. Herold	368	S. 29.....	Tenth	5.23
9131	Nathan Brown	368	16.....	Ninth	36.81
9144	Adam Schriver	377	Of 22.....	Ninth	9.81
9147	Hugh Gelston	379	Of 9.....	D.....	1.76
9154	Isaac Sickles	381	Of 6.....	Tenth	.52
9158	John E. Bayliss	389	36.....	F.....	8.66
9159	John C. DeAtley	389	32.....	F.....	8.66
9163	S. H. Sherwood, trustee	398	Of S. 10	Ninth	.45
9166	Harriet Robinson	399	Of S. 24	Eighth	23.23

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
9167	John Nelson, jr	399	Of S. 19	Eighth	\$13.57
9168	do	399	Of S. 20	Eighth	10.49
9169	Susan C. Nicholson	399	Of S. 26	Eighth	17.32
9170	do	399	Of S. 27	Eighth	17.33
9171	Frederick Rapp	399	S. D.	O	.16
9172	Johannes Wagner	623	18	H	13.89
9173	Reuben S. Parks	623	19	H	13.89
9174	Lester F. Ward	623	36	H	13.90
9176	Z. Jones and J. T. Given	624	52	H	24.28
9180	Laura E. Kimball	676	19	H	19.97
9181	J. Jones and J. Maguire	677	Of S. 44	H	7.96
9184	H. W. Meehan	690	Of 7	B	58.03
9185	do	690	S. 6	B	1.71
9190	David Shea	719	7	H	2.20
9191	William S. Huntington	722	S. 26	E	20.30
9192	do	722	S. 22	E	20.31
9202	Charles H. Holden	762	6	Second	.19
9293	do	763	6	Second	3.11
9210	John C. Wright	829	S. 29	Fifth	1.23
9211	do	829	S. 28	Fifth	1.23
9212	John O'Herring	858	1	H	2.20
9213	Cecelia Evans	876	5	South Carolina	23.98
9214	Abner Kelly	889	6	H	2.59
9215	Jere McCarthy	890	26	H	2.39
9216	William Williams	898	Of 23	Seventh	6.26
9222	Cornelius T. Bowen	912	24	H	2.59
9223	James E. Arnold	926	Of 12	Eighth	14.09
9226	Frederick W. Jones	933	S. 17	Ninth	2.85
9227	do	933	S. 16	Ninth	2.85
9228	do	933	S. 20	Ninth	2.54
9234	Mary A. Williams	977	26	Eleventh	18.35
9236	Mary Harrison	977	27	Eleventh	24.21
9239	Martha H. McKnight	1000	11	Eleventh	24.21
9244	George R. Milburn	1026	S. 60	I	9.82
9245	Mary F. Lewis	1026	S. 52	I	19.55
9255	C. C. Carruthers			Seventh-street road	38.51
9256	Jane D. Jackson			Seventh-street road	36.46
9257	Josiah Whitney			Seventh-street road	27.17
9258	Frederick Snyder, heirs of			Seventh-street road	18.23
9263	J. T. Dudley			Seventh-street road	14.74
9268	Sophia A. Arnold	494	Of 1	Fourth-and-a-half	20.12
9269	Henry O. Johnson	499	Of 14	Sixth	16.54
9270	do	499	Of 13	Sixth	15.14
9272	I. G. Naylor	525	S. 20	Fourth	2.12
9276	W. G. Parkhurst	525	Of 5	Fourth	2.99
9277	Charles Zimmerman	526	Of 7	Fourth	2.44
9278	Martha Allison	526	Of 4	Fourth	7.72
9279	Albert Boulden	526	Of 8	L	27.95
9280	Lemuel Boteler	526	Of 7	Fourth	1.96
9281	Patrick Foley	527	2	Fourth	1.93
9282	D. C. McGiven	527	Of S. 3	Fourth	2.46
9283	Elizabeth Herbert	527	Of S. 2	Fourth	9.66
9284	Tim O'Connell	527	Of S. 4 of 1	Third	24.75
9290	J. P. Hilton, trustee	528	Of S. 12	Fourth	22.27
9293	John O'Connor	529	Of 8	Fourth	2.20
9297	G. C. G. Sauer	530	Of 6	Fourth	2.24
9298	George Usher	531	Of 5	Fourth	18.30
9299	Amon Green	531	Of 2	E	10.14
9300	G. P. Page	532	Of 9	E	10.14
9301	Samuel Steinmetz	532	Of 9	E	10.14
9302	John B. Ward	532	Of 6	Fourth	3.42
9305	H. N. Gilbert	532	Of 5	Fourth	3.72
9306	Horace J. Gray	533	6	C	26.48
9307	Bartley Knopp	537	S. $\frac{1}{2}$ of 17	Fourth-and-a-half	24.04
9316	William E. Clarke	32	15	Virginia	18.42
9342	Henry Rabe	814	S. A	Fourth	1.00
9412	A. Lee	324	Of 5	Twelfth	3.53
9414	John Roney	324	Of 4	Twelfth	.19
9419	John Walter, sr	324	Of 6	Twelfth	.44
9420	Francis Hanna	324	Of 4	Twelfth	.08
9422	Edward Champlin	325	Of 5	Twelfth	.25
9423	H. W. Blunt, trustee	325	4	Twelfth	8.47
9424	do	325	3	Twelfth	1.50
9432	John H. Clarke	297	S. L	Twelfth	2.18
9434	F. Dankworth	297	S. N	Twelfth	1.79
9437	John Welsh	299	1	Twelfth	4.87
9439	John Walter, sr	323	Of 5	Twelfth	.68
9441	Josephine D. Hicks	296	Of 21	Twelfth	2.24

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
9473	Rebecca B. Haslip.....	291	Of 12	Twelfth	\$6.16
9495	S. J. Thomas.....	284	24.....	Twelfth	20.60
9501	William Payne.....	65	Of 139	Dunbarton.....	.14
9504	Sarah Ashford.....	70	Of 128	Dunbarton.....	3.44
9505	W. W. McNeir, heirs	70	Of 128	Dunbarton.....	15.10
9506	Lewis Mackall.....	70	Of 118	Montgomery.....	31.90
9509	Jane Myers.....	74	Of 150	Market	4.70
9510	H. A. Klopfer.....	75	Of 8	I.....	24.59
9511	John Poor.....	75	Of 10.....	Twenty-second	19.03
9525	Ann Kedgie.....	86	18.....	Nineteenth	11.95
9529	Joseph Woodland.....	94	Of 83.....	West	4.27
9541	Thos. Dalton.....	513	Of 21.....	N.....	6.15
9546	Jas. G. Naylor.....	514	S. 42	New York.....	3.69
9547	do.....	514	S. 43	New York.....	3.70
9549	Henry C. Spencer.....	514	Of 13.....	Fifth	7.07
9550	J. A. Linton, trustee.....	515	Of 28.....	Fourth	4.47
9552	Samuel Miller.....	515	20.....	L.....	54.45
9553	J. G. Naylor.....	515	104.....	Fourth	1.82
9554	do.....	515	101.....	Fourth	1.75
9555	C. P. Russell.....	N. 515	Of 1.....	Fourth	9.56
9556	James G. Naylor.....	N. 515	S. 40	Fourth	2.17
9579	P. Carroll.....	515	Of 25.....	Fourth	2.09
9581	Jas. G. Naylor.....	N. 515	S. 36	New York.....	16.51
9582	do.....	N. 515	S. 33	New York.....	2.99
9583	Martha Allison.....	515	Of 28.....	Fourth	4.47
9584	W. H. Pearson.....	515	Of 21.....	L.....	9.60
9588	William Reid.....	S. 516	Of 21.....	Fourth	3.73
9589	A. C. Varella.....	516	Of 12.....	Fifth	.11
9590	Ann C. Fietgler.....	516	Of 28.....	Fourth	2.65
9601	J. B. Burke.....	518	Of S. 2	Fourth	6.07
9603	J. G. Naylor.....	525	S. 22	Fourth	1.94
9604	do.....	525	S. 21	Fourth	1.89
9609	John McKimm.....	555	3.....	New York.....	19.90
9610	Archy Brown.....	556	Of S. 4	Third.....	9.76
9618	Edward Eberbach.....	567	B.....	New Jersey	1.62
9624	James R. McAllister.....	568	26.....	Second.....	41.26
9629	Benjamin Gittings.....	570	S. D	D.....	24.85
9630	Joseph Fugitt.....	570	12.....	Second.....	34.15
9664	Lucy Vigal.....	89	103.....	Beall	.98
9669	Thomas T. Crittenden, trustee.....	28	Of 19	K.....	1.02
9704	Alex. Elliott, jr.....	733	Of S. 9.....	First	.31
9713	Henry Pautzenbeiter.....	816	S. B.....	Fifth	6.20
9723	Joseph Tyne.....	32	Of 17	Virginia	4.31
9744	Joseph R. Ashley.....	939	4.....	B.....	1.60
9747	Levi J. Brvan and Charles A. Moore.....	32	Of 17	Virginia	5.22
9751	Robert S. King.....	819	S. B.....	Fifth	14.52
9753	Sallie S. Saxton.....	692	S. B.....	First	.59
9754	Jane Lowrey.....	692	S. F.....	First	.59
9755	Edwin G. Horn.....	692	S. G.....	First	.61
9756	Cornelia C. Drury.....	733	Of S. 12.....	First	5.72
9757	Edward Hobart.....	733	Of S. 11.....	First	.16
9758	do.....	733	Of S. 10.....	First	.27
9759	Alex. Elliott, jr.....	733	Of S. 8.....	First	.22
9768	J. T. Dudley.....	320	Of 10	Seventh street road. ..	.01
9787	George W. Hauptman.....	558	Of 4	Eleventh	18.75
9792	W. P. Johnson.....	323	Of 6	Third.....	20.07
9793	Erastus Poulson.....	324	11.....	Twelfth	19.05
9794	Eliza Duff.....	90	5.....	Eleventh	13.23
9802	W. D. C. Murdock.....	163	Of S. 27.....	Connecticut	13.42
9822	Mary Day.....	210	42.....	Connecticut	4.13
9851	Henry Key.....	209	Of 12, 13	Fifteenth.....	17.72
9855	John McCarty.....	238	Of 1.....	Fifteenth.....	15.45
9890	James Taylor.....	306	Of 1.....	S.....	7.95
9894	Richard C. Gill.....	306	S. 21	S.....	9.85
9898	William W. Dean.....	306	S. 30	S.....	9.85
9924	Daniel F. Chandler.....	36	32.....	M.....	21.70
9932	J. C. Haviland.....	70	Of 3	M.....	12.80
9933	P. W. Dorsey.....	70	Of 3	M.....	20.89
9937	Henry Schaefer.....	407	Of 13	Eighth	.49
9940	Fitzhugh Coyle.....	432	Of 6	Eighth	2.41
9949	Richard Posey.....	286	Of 12	I.....	2.35
9996	Anna Williams.....	313	Of 3	Twelfth	.16
11029	John McCarty.....	209	Of 12, 13.....	Fifteenth.....	27.86
11078	Francis Buchanan.....	319	Of 9	Twelfth	4.12
11090	James A. Magruder.....	99	Of 230	West	41.60
11091	James A. Magruder, heirs.....	87	Of 199	West	28.25
11096	Leonard Simmermacker.....	1002	S. 36	I.....	2.37
11117	John Farnham, trustee.....	557	S. 40	Pierce	17.05

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
11159	W. Tucker	344	Of 11	I	\$21.75
11167	G. W. Hauptman	289	Of 17	Twelfth	2.01
11179	R. I. Fleming	282	S. 12	Twelfth	10.94
11235	F. W. Rest, trustee	903	S. C	Eighth	1.31
11241	Truman Brush	904	Of 28	Eighth	.42
11266	Michael Thompson, trustee	321	Of 16	Eleventh	3.22
11281	M. W. Galt	321	Of 13	Eleventh	.33
11286	do	321	Of 13	Eleventh	1.18
11287	Tobias Purrington	321	Of 13	Eleventh	1.17
11336	Mary Miller	314	S. 34	Eleventh	6.13
11338	Walter Stewart	319	Of 15	Eleventh	.30
11339	do	319	Of 13	Eleventh	.29
11340	do	319	Of 12	Eleventh	.16
11341	Edward Younger	318	Of 11	Eleventh	4.39
11365	Chas. V. Gordon	345	Of 8	Eleventh	1.65
11366	Walter S. West	340	Of 18	Eleventh	.16
11368	Leonard S. Chapman	339	11	Eleventh	3.03
11370	do	339	12	Eleventh	1.52
11374	Michael Shanks	346	Of 5	Eleventh	6.77
11375	James Carter	346	Of 5	Eleventh	.34
11377	Leonard S. Chapman	339	6	Eleventh	3.03
11379	do	339	8	Eleventh	2.34
11380	do	339	9	Eleventh	1.52
11382	Henry Turner	345	Of 7	Eleventh	.35
11385	Lewis Johnson	345	B	Eleventh	5.67
11395	Henry Turner	345	Of 6	Eleventh	.66
11397	George W. Hauptman	320	Of 11	Eleventh	1.42
11398	do	320	Of 10	Eleventh	1.42
11400	Abraham Marshall	341	S. H	Eleventh	3.57
11401	do	341	S. G	Eleventh	3.57
11408	William Brown	344	Of 4	Eleventh	.70
11427	James Watson	313	S. 6	Eleventh	3.71
11437	Helen Chambers	315	Of 9	Eleventh	3.13
11443	Mary Ann Sheckels	317	Of 12	Eleventh	2.72
11466	Eliza Moorehead	466	10	Seventh	9.28
11474	James Halley	437	Of 1	Seventh	1.03
11523	Minerva Rogers	222	Of 1	Fourteenth	8.84
11548	Samuel Byington	469	33	Alley	32.28
11566	Thomas Collins	469	19	Alley	14.31
11587	S. H. Howell	468	S. R	Alley	17.13
11590	do	468	S. Q	Alley	16.02
11591	do	468	S. P	Alley	13.78
11642	Sophia Jones	411	Of 39	Alley	6.40
11672	Robert B. Cloakey	161	S. 6	Connecticut	3.50
11676	George R. Hall	163	S. 31	Connecticut	6.27
11684	J. P. Klinge	207	62	S	8.68
11685	John O. Evans	217	19	Fourteenth	14.67
11686	do	217	20	Fourteenth	14.00
11693	S. Pettigrew Bowen	248	25	Fourteenth	12.74
11715	John O. Evans	250	Of 14	Fourteenth	2.78
11716	George W. Driver	250	Of 16	Fourteenth	3.95
11717	do	250	Of 15	Fourteenth	3.61
11718	Mary E. Moreland	250	Of 14	Fourteenth	3.59
11719	Charles Meyert	411	36	Alley	18.00
11765	Thomas Lundy	74	Of 7	Pennsylvania	15.40
11771	John H. Smoot	29	Of 6	Bridge	2.58
11776	Maria Emerich	30	Of 47	Bridge	2.32
11818	J. M. Schofield	38	Of 12	Bridge	3.10
11846	Robert White	16	Of 41	Bridge	7.79
11899	Lewis Clements	377	Of 11	Tenth	38.54
11964	M. Riley	858	Of 13	I	15.70
11994	Hiram M. Green	467	2	G	5.19
11998	Theodore E. Holtzclaw	467	36	G	5.60
12026	S. H. Howell	468	SS	Alley	12.67
12080	John O. Evans	217	22	Fourteenth	14.00
12092	J. L. Savage	336	B	Alley	12.09
12120	James F. and Charles H. Slater	411	22	Alley	18.83
12121	Thomas Young	133	73	R	37.32
12132	P. O'Donoghue	749	Of 5	Second	40.32
12133	do	749	Of 3	K	80.03
12207	George Orme, heirs	29	Of 14	Bridge	2.39
12240	C. P. P. Wroe, trustee	S. 516	Of 22	Fourth	2.25
12254	William H. Falconer, trustee	372	A	New York	12.68
12255	do	372	Of 1	New York	10.68
12285	R. C. Dunlap	27	11	Pennsylvania	.04
12288	Eleanor O'Toole	168	S. 17	Pennsylvania	3.41
12289	Mary M. Drury	168	S. 18	Pennsylvania	5.45
12314	L. E. McCauley	221	Of 3	Pennsylvania	3.74

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
12317	W. H. Perkins.....	119	Of 9.....	Pennsylvania.....	\$1.83
12325	John Little.....	118	Of 3.....	Pennsylvania.....	12.27
12326	Benjamin Beall.....	118	Of 5.....	Pennsylvania.....	4.54
12330	Thomas Smith.....	119	Of 10.....	Pennsylvania.....	2.32
12354	Catharine Connor.....	625	Of S. 2.....	Massachusetts.....	12.66
12368	M. A. Kerr.....	221	17.....	H.....	10.32
1240	Bladin Dulaney.....	118	Of 2.....	Pennsylvania.....	.45
12403	Armand Jardin, trustee M. Dubois.....	168	Orig. 16.....	Pennsylvania.....	1.87
12404	Terrence Drury.....	168	Of 17.....	Pennsylvania.....	1.18
12405	Christian F. Schmidt.....	168	Of 17.....	Pennsylvania.....	.20
12417	Elizabeth F. Denny.....	166	6.....	Pennsylvania.....	1.09
12430	W. H. Perkins.....	119	Of 9.....	Pennsylvania.....	.24
12434	John F. Mountemsey.....	250	Of 1.....	H.....	.21
12437	Peter Parker.....	167	1.....	Pennsylvania.....	.13
12438	do.....	167	2.....	Pennsylvania.....	.13
12439	L. E. McCauley.....	221	Of 3.....	Pennsylvania.....	.39
12444	Mary M. Drury.....	168	S. 18.....	Pennsylvania.....	2.61
12460	J. D. Harrison.....	343	Of 2.....	I.....	.41
12483	Eddie S. Warren.....	285	Of 8.....	I.....	.14
12489	A. Jackson, trustee.....	401	Of 4.....	Ninth.....	4.60
12509	Augustus Koch.....	378	S. O.....	D.....	.29
12510	John Rogers.....	457	Of 3.....	D.....	1.09
12512	Augustus Koch.....	378	Of S. B.....	D.....	.21
12516	John L. Kidwell.....	348	Of 3.....	D.....	1.14
12520	H. H. Wurdemann.....	405	Of 5.....	Ninth.....	4.09
12537	T. A. Sandford.....	405	Of 6.....	Ninth.....	1.22
12540	Elon Boorehead.....	404	Of 4.....	Ninth.....	.80
12550	Morgan Donohoo.....	407	Of 6.....	Ninth.....	6.17
12553	Rose M. Kleiber.....	403	Of 4.....	Ninth.....	.01
12557	Jerry L. Page.....	401	Of 8.....	Ninth.....	.13
12561	J. B. Oliver.....	401	Of 8.....	Ninth.....	1.11
12563	T. J. Robinson.....	401	Of 5.....	Ninth.....	1.70
12573	George Savage.....	348	Of 1.....	D.....	.40
12585	Jos. Radcliffe, trustee.....	404	Of 1.....	H.....	.46
12619	W. P. Johnson.....	558	Of 4.....	Third.....	1.67
12635	Wm. Brown.....	209	Of S. 21.....	Q.....	3.70
12638	A. E. D. Sharp.....	240	Of S. 101.....	Corcoran.....	.04
12641	M. W. McCartney.....	208	S. 12.....	Q.....	.70
12642	John H. Lewis.....	209	Of S. 26.....	Q.....	.47
12646	Zalmon Richards.....	240	S. 28.....	Corcoran.....	.15
12648	do.....	240	S. 23.....	Corcoran.....	.18
12649	do.....	240	S. 27.....	Corcoran.....	.21
12650	Mary A. Sullivan.....	1027	S. 22.....	H.....	.09
12664	Innis N. Palmer.....	121	Of 2.....	F.....	6.06
12668	Annie E. May.....	379	Of 7.....	D.....	.28
12671	Hugh Gelston.....	379	Of 9.....	D.....	.12
12676	W. Q. Force.....	378	8.....	D.....	.06
12677	do.....	378	S. 7.....	D.....	.02
12699	Wm. Durke, trustee.....	209	Of S. 24.....	Q.....	.48
12717	Annie Foley.....	424	Of 10.....	N.....	2.60
12720	Joseph Weaver.....	368	Of 16.....	N.....	.71
12731	Z. D. Gilman.....	368	S. 52.....	N.....	.70
12741	Geo. V. and Martha Leech.....	181	S. 118.....	Sixteenth.....	.31
12769	Noah L. Jeffries.....	199	Of 14.....	Fifteenth.....	2.59
12797	Edward F. Beale.....	212	S. 78.....	N.....	2.84
12814	Mary Harrison.....	977	Of 27.....	Eleventh.....	3.38
12821	Harrison Williams.....	101	22.....	I.....	.21
12855	John Duffy.....	48	4.....	P.....	4.53
12875	L. C. Baker <i>et al</i>	403	Of 11.....	Eighth.....	.30
12885	Florant H. Meline.....	243	Of 2.....	N.....	3.03
12906	Elizabeth V. Welch.....	40	4.....	I.....	1.59
12907	L. C. Baker <i>et al</i>	403	Of 12.....	Eighth.....	1.00
12909	Thos. M. S. Williams.....	293	Of 5.....	C.....	.12
12919	H. A. Klopfer.....	75	Of 8.....	J.....	5.12
12924	Zeph. Jones <i>et al</i>	256	8.....	E.....	.20
12938	Geo. C. Talbert.....	977	Of 23.....	Eleventh.....	1.29
12941	Geo. A. Bohrer.....	978	Of 20.....	Eleventh.....	3.35
12972	Lucy R. Reid <i>et al</i>	200	10.....	I.....	.32
12986	Cornelius Shea.....	525	Of 1.....	Third.....	34.83
12997	G. T. Longley.....	401	Of 8.....	Ninth.....	.62
13026	S. H. Howell.....	468	S. T.....	Alley.....	12.78
13039	Hiram W. Green.....	467	Of 2.....	Alley.....	8.46
13042	Ed. C. Carrington.....	209	S. 50. 51.....	Alley.....	95.01
13043	Jas. J. Towles.....	209	Of S. 49.....	Alley.....	15.34
13054	Patrick Murray.....	776	S. 7.....	Alley.....	33.37
13063	Maurice Diggin.....	776	S. 29.....	Alley.....	11.99
13103	J. L. Savage.....	336	A.....	Alley.....	11.05
13105	Owen Black.....	336	31.....	Alley.....	16.59

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
13107	Jas. S. Robinson.....	336	10.....	Alley.....	\$18.53
13153	J. L. Fowler.....	465	Of 70.....	Seventh.....	.44
13159	Lewis Dorr.....	434	Of 1.....	Seventh.....	5.61
13212	J. Wise & Callahan.....	582	Of S. 22.....	Alley.....	18.70
13217	Hilroy Davis.....	582	Of S. 14.....	Alley.....	2.70
13218	A. Brooks & A. Bowen.....	582	Of S. 16.....	Alley.....	28.23
13242	Jesse T. Peck.....	285	S. 11.....	I.....	45.55
13273	Daniel Carroll, of Duddington.....	690	2.....	C.....	18.76
13287	Gabriel Mark.....	582	Of S. 1.....	Alley.....	11.62
13292	William Q. Force.....	582	Of S. 11.....	Alley.....	27.81
13293	Samuel Adams.....	582	Of S. 11.....	Alley.....	17.43
13300	Andrew Pierungski.....	582	Of S. 22, 23.....	Alley.....	5.20
13306	Patrick O'Donnell.....	582	Of S. 23.....	Alley.....	12.95
13327	Levi W. Kimball.....	242	S. 1.....	Fourteenth.....	7.60
13330	Ann Jenkins.....	211	Of 18.....	Fourteenth.....	8.01
13364	Elizabeth T. Queen.....	453	Of 17.....	I.....	95.73
13371	William Orme.....	27	Of 2.....	Pennsylvania.....	9.68
13396	John P. Ingle.....	166	Of 1.....	Pennsylvania.....	72.15
13398	Terrence Drury.....	168	Of 17.....	Pennsylvania.....	5.00
13401	Jane F. Redfern.....	166	Of 4.....	Pennsylvania.....	2.04
13402	F. A. and C. A. Schneider.....	166	Of 3.....	Pennsylvania.....	2.05
13412	Elizabeth F. Denny.....	166	6.....	Pennsylvania.....	4.99
13414	Peter Parker.....	167	2.....	Pennsylvania.....	7.30
13415	Francis P. Blair.....	167	3.....	Pennsylvania.....	7.21
13416	Peter Parker.....	167	1.....	Pennsylvania.....	7.29
13417	Christian F. Schmidt.....	168	Of 17.....	Pennsylvania.....	2.75
13418	Joseph Shwartz.....	168	Of 15.....	Pennsylvania.....	3.85
13433	Benjamin Farrar, trustee.....	167	Of 1.....	Sixteenth-and-a-half.....	.42
13442	John O. Evans.....	217	16.....	Vermont.....	3.47
13444	do.....	217	15.....	Vermont.....	3.47
13449	William Wall.....	214	S. 16.....	Vermont.....	1.57
13454	John O. Evans.....	217	17.....	Vermont.....	96.02
13458	John W. Starr.....	941	Of 10.....	Tenth.....	19.81
13459	David Keenan.....	964	Of 7.....	Tenth.....	1.42
13463	Lucy C. Allen.....	366	S. O.....	P.....	.81
13470	James S. Robinson.....	282	Of 17.....	Massachusetts.....	14.07
13471	Abner B. Kelly.....	889	11.....	H.....	.80
13473	do.....	889	12.....	H.....	.88
13474	Jere McCarthy.....	890	S. 26.....	H.....	.30
13477	William Miller.....	194	S. 9.....	P.....	4.99
13485	James T. Dana.....	181	S. 103.....	P.....	.53
13614	Mary E. Shoemaker.....	74	Of 134.....	Second.....	2.94
13515	Ellen Deeble.....	110	Of 28.....	High.....	.72
13523	F. R. Windsor.....	934	S. 44.....	H.....	.80
13535	Moses Kelly, trustee.....	247	G.....	Massachusetts.....	4.37
13536	do.....	247	H.....	Massachusetts.....	4.37
13548	Charles T. Davis.....	193	S. 92.....	Q.....	1.62
13550	John Harrington.....	51	Of 55.....	First.....	.35
13551	Catharine Homiller.....	50	Of 74.....	First.....	.30
13553	Samuel Hein.....	61	Of 99.....	First.....	.89
13564	Carl Mueller.....	397	Of 7.....	Q.....	3.89
13565	Benedict Milburn.....	241	S. F.....	Q.....	3.50
13570	James Taylor.....	241	Of S. 55.....	Q.....	8.46
13571	Mary A. Ward.....	241	Of S. 55.....	Q.....	.53
13576	John Casey.....	522	S. 3.....	N.....	.15
13587	Mary C. Bicksler.....	684	S. 13.....	Delaware.....	12.14
13588	William McStewart.....	479	S. 13.....	Sixth.....	1.93
13589	Edward Gallant.....	479	S. 28.....	Sixth.....	1.86
13593	John Miller.....	479	W. 484.....	Massachusetts.....	16.53
13597	Charles E. Upperman.....	342	A.....	Massachusetts.....	6.81
13600	William Windom.....	686	S. 27.....	B.....	.35
13635	George C. Cornwell <i>et al</i>	226	6.....	E.....	.43
13641	William P. Thompson.....	242	S. 54.....	Vermont.....	3.91
13677	Abner B. Kelly.....	889	11.....	H.....	2.59
13680	do.....	889	10.....	H.....	2.59
13687	Austin P. Brown.....	283	23.....	Massachusetts.....	6.95
13691	Robert Mahoney, trustee.....	545	Of S. 24.....	M.....	6.03
13692	do.....	545	Of S. 25.....	M.....	.97
13693	W. M. Moore.....	481	Of 3.....	Sixth.....	.98
13712	George W. Sumner.....	366	S. M.....	P.....	1.79
13714	J. B. Clagett.....	477	Of 4.....	Sixth.....	3.58
13732	William Windom.....	686	Of S. 26.....	B.....	.15
13733	William E. Humphrey.....	442	Of S. 41.....	Sixth.....	.04
13737	Joseph M. Pierce.....	403	Of 12.....	Eighth.....	1.45
13738	George F. Muth.....	403	Of 12.....	Eighth.....	5.18
13740	Zeph Jones.....	256	Of 9.....	E.....	.46
13747	W. H. Goodacre.....	55	Of 8.....	Twenty-third.....	.19
13760	John Niland.....	51	Of 7.....	Twenty-third.....	7.70

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
13761	Charles F. Clauson	207	53	S	\$1.36
13772	Mary C. Bickler	684	S. 13	Delaware	6.20
13777	Elizabeth Kurtz	377	Of 17	F	10.72
13786	Thomas C. Wilson	289	6	F	.21
13793	W. J. Conway	776	S. 1	H	.26
13805	Francis A. Jones	70	Of 130	Montgomery	.27
13806	John Burns	858	S. 9	H	.20
13811	William E. Chandlee	245	S. L.	Vermont	3.13
13812	Zalmon Richards	240	S. 29	Corcoran	.15
13813	A. and E. D. Sharp	240	S. 102	Corcoran	.08
13817	Laura E. Kimball	676	19	H	2.99
13820	John Casey	982	Of 7	H	.19
13830	John E. Bayliss	389	Of S. 36	F	1.98
13835	Reuben S. Parks	623	19	H	.78
13838	William E. Chandlee	245	S. M	Vermont	3.13
13841	Lester F. Ward	623	36	H	1.10
13851	Euphemia Manning	254	Of 24	Thirteenth	14.35
13870	Robert White	16	Of 41	Bridge	2.13
13872	Peter Dill	30	Of 46	Bridge	8.14
13880	John Henderson	207	60	S	2.43
13881	J. P. Klinge	207	62	S	.25
13908	John France	292	Of 1	D	.27
13914	William B. Stone, jr., heirs of	292	Of 1	D	1.52
13919	John France	292	Of 2	D	.22
13924	Ella Mason	180	S. 49	Sixteenth	4.28
13933	Lavinia Carter	257	S. A	Thirteen-and-a-half	4.06
13938	Thomas N. Adams	177	S. 2	Sixteenth	8.92
13939	Annie R. Gilbert and J. Whitney	361	Of S. 26	Ninth	1.33
13948	Alexander Duchav	245	S. 1	Vermont	3.30
13949	William E. Chandlee	245	S. N	Vermont	3.13
13954	Z. Jones and J. T. Given	624	52	H	2.66
13957	Abner B. Kelly	889	10	H	.80
13959	do	889	2	H	.10
13956	do	889	3	H	.10
13960	do	889	1	H	.45
13962	Thomas Milburn	777	Of 9	H	.26
13964	Sarah Kane	859	Of 19	H	.04
13971	David Shea	719	S. 7	H	.35
13980	John F. Pile	74	Of 134	Second	2.13
13986	Joseph Woodland	94	Of 83	West	.48
14002	Patrick O'Donnell	776	S. 4	Alley	27.38
14020	Zelia Maison	494	Of 15	Alley	12.86
14027	Rebecca J. Wilson	498	16	Alley	31.79
14047	William J. Metzgerott	209	S. 24	Alley	15.87
14058	James Crown	209	Of S. 55	Alley	25.72
14090	James Develin	37	Of 19	Twenty-third	2.05
14143	James M. McNair	366	S. 60	Ninth	.99
14149	Lewis F. Perry	399	Of S. 7	Ninth	3.09
14174	Margaret A. Herold	368	S. 29	Ninth	.20
14180	John O. Herring	858	S. 1	H	.07
14191	Hayes Speakman	174	Of 1	Sixteenth	17.67
14200	John J. Almy	212	Of S. 56	Massachusetts	11.37
14201	do	212	Of S. 55	Massachusetts	11.37
14206	Cornelia Shea	829	S. 11	Fifth	3.45
14214	Henry A. Tayloe	400	Of S. 16	Ninth	2.00
14216	Joseph W. Boucher	16	Of 41	E. & W. Market Space	.34
14218	Michael Coffey	140	Of 5	L	1.13
14223	D. C. McGiven	527	Of S. 3	Fourth	.18
14224	Patrick Foley	527	Of S. 2	Fourth	.19
14225	Martha Allison	526	Of 4	Fourth	.17
14230	J. B. Burke	518	Of S. 2	Fourth	.66
14244	Richard W. Bruff	873	S. 45	Pennsylvania	8.80
14247	S. L. Loomis, trustee	85	S. C	L	1.88
14248	do	85	S. B	L	1.88
14266	Elizabeth Herbert	527	Of S. 2	Fourth	.12
14270	Martha Allison	515	Of 28	Fourth	.09
14271	C. P. P. Wroe, trustee	S. 516	Of 22	Fourth	.22
14279	Henry Keller	529	Of 6	Fourth	.58
14281	John A. Blau	529	Of 8	Fourth	.25
14282	John O'Connor	529	Of 8	Fourth	.18
14283	Lemuel Boteler	526	Of 7	Fourth	.18
14290	J. G. Naylor	515	101	Fourth	.03
14291	P. Murtaugh	515	Of 25	Fourth	.19
14292	Thomas Downey	515	Of 25	Fourth	.21
14293	J. G. Naylor	515	102	Fourth	.17
14294	James D. Smith	S. 516	Of 20	Fourth	.97
14297	Clement Robinson	525	Of 2	Fourth	4.96
14299	N. C. Towle	532	Of 5	Fourth	1.92

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
14301	J. G. Naylor	515	104.....	Fourth	\$0.20
14303	James Crehan	515	Of 25.....	Fourth	.82
14305	Hy. Eicholtz	527	Of S. 2	Fourth	.21
14307	Rachel Butler	526	Of 5.....	Fourth	.03
14317	Eliza Boreland	197	Of S. 2	L	2.40
14318	Sarah Ann Griffin	530	10.....	Fourth	.94
14322	George Usher	531	Of 5.....	Fourth	4.69
14325	W. H. Smith	198	Of S. 16	L	.48
14328	John B. Lord	518	S. 29	Fourth	.78
14329	do	518	S. 28	Fourth	.78
14330	do	518	30.....	Fourth	.78
14331	do	529	Of 6.....	Fourth	.91
14333	Mary Mackey	527	Of S. 2.....	Fourth	.48
14334	James Parsball	525	Of 2.....	Fourth	.30
14335	J. G. Naylor	525	S. 20	Fourth	.08
14342	Ann Phillips	117	Of 2.....	L	1.62
14343	do	117	Of 2.....	L	1.69
14346	J. P. Hilton, trustee	528	Of S. 12.....	Fourth	1.15
14348	Ann C. Tiegler	516	Of 28	Fourth	.30
14355	S. H. Sherwood, trustee	398	Of S. 10.....	Ninth	.07
14369	Eugene P. Warren	73	16.....	L	5.20
14370	R. C. Schenck and R. C. Schenck, jr ..	135	1.....	M	.18
14381	Alfred G. Haley	306	S. 2.....	Eleventh	1.72
14382	Matilda Taylor	333	S. 15	Eleventh	.14
14384	J. M. Latta	136	3.....	Connecticut	.38
14386	W. D. C. Murdock	90	7.....	Connecticut	1.80
14402	George H. Plant	210	S. 43	Fifteenth	2.58
14423	Ellen T. Cowen	247	M	L	.79
14450	Lloyd P. Pumphrey	193	S. 86	Fifteenth	4.93
14456	F. H. Morgan	364	Of 15	Ninth	7.67
14488	Henry Lindenkohl	179	S. 44	Sixteenth	2.30
14500	Washington Whittler	182	51.....	Sixteenth	1.75
14508	John J. Freeman <i>et al.</i>	449	Of 6.....	L	5.89
14516	Louisa Riley	515	Of 22	L	2.41
14554	Thomas Summerscales	S. 475	S. 3.....	Rhode Island	9.30
14560	Catharine McDonnough	107	Of 7.....	K	2.79
14564	Mary Cratley	N. 508	S. 4.....	Rhode Island	4.51
14587	Charles W. Patterson	Res. D.	Of 10	Maryland	.70
14589	C. L. and J. D. Ketchum	248	Of 8.....	K	.19
14592	George W. Drew	248	Of 8.....	K	1.10
14599	Fannie Smith	163	Of 7.....	K	3.07
14606	W. Valentine	163	Of 9.....	K	1.90
14608	James Anderson and S. Bond	163	Of 8.....	K	8.60
14609	Mary Ann Matthews	199	Of S. 13.....	K	.60
14610	do	199	Of S. 12.....	K	5.14
14612	H. V. Bryington	184	1.....	K	11.72
14625	William M. Corcoran	364	S. 126	R	2.55
14640	Samuel L. Bryan	159	S. 30.....	Rhode Island	15.46
14663	Margaret Lenox	380	Of 5.....	Tenth	3.03
14678	Elizabeth A. Savoy	158	Of 4.....	N	1.31
14679	William M. Corcoran	364	S. 125.....	R	2.27
14692	Dennis Barrett	419	Of 7.....	Eighth	.52
14700	Isaac D. Kitch	694	S. A.....	New Jersey	8.21
14702	William Easbey	691	12.....	New Jersey	18.41
14709	Annie Wilson	381	Of 5.....	Tenth	.12
14734	James Lewis	183	S. C.....	Sixteenth	1.13
14735	John Donovan	183	S. 25.....	Sixteenth	5.11
14738	C. Donovan	184	Of S. 18.....	Sixteenth	.82
14739	S. B. Perkins	184	Of S. 20.....	Sixteenth	5.63
14773	John Connolly <i>et al.</i>	182	52.....	Sixteenth	4.26
14791	George M. Hickmann	525	Of 1.....	L	6.66
14795	B. Harton	182	62.....	Sixteenth	6.72
14796	H. B. Owen	383	Part of sq. ..	B	4.18
14801	J. G. Naylor	525	S. 21.....	Fourth	.07
14802	W. G. Parkhurst	525	Of 5.....	Fourth	.36
14804	James Coumas	556	Of S. 1.....	L	1.03
14806	J. G. Naylor	525	S. 22.....	Fourth	.07
14810	John B. Lord	518	S. 27.....	Fourth	.77
14815	do	518	S. 26.....	Fourth	.64
14818	James Green	183	Of S. 48.....	Sixteenth	3.25
14821	William Carter	183	Of S. 45.....	Sixteenth	2.94
14823	J. C. Chavis	183	24.....	Sixteenth	18.02
14839	Edward Spedden	369	Of 2.....	L	1.55
14843	G. C. G. Sauer	530	Of 6.....	Fourth	.24
14847	John H. McCutchen	426	Of 8.....	L	4.51
14852	Albert Boulden	526	Of 8.....	L	3.96
14853	W. H. Pearson	515	Of 21.....	L	1.85
14854	John B. Ward	532	Of 6.....	Fourth	.35

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
14855	C. P. Clarke.....	18	3.....	Pomeroy.....	\$15.97
14861	Henry Waters.....			Hamilton road.....	1.29
14863	J. F. Coke.....		Of 13.....	Linnean Hill road.....	11.15
14869	Charles J. Diggs.....		S. 23.....	Section 2, Stanton.....	2.35
14872	Horace W. Dungan.....	Blk. 7	10.....	Sumner.....	2.35
14873	Walter S. Eaton.....	Do.	9.....	Sumner.....	2.35
14878	J. L. Barber.....		4.....	Lincoln.....	11.53
14885	Mary Hall.....			Hamilton road.....	.56
14886	Helen Batson.....			Hamilton road.....	.94
14887	Leonard Frost.....			Hamilton road.....	7.10
14889	John L. Wiggins.....		62.....	Sumner.....	1.75
14891	Helen Batson.....			Hamilton road.....	.86
14906	John L. Kidwell.....	217	S. 17.....	L.....	1.99
14907	do.....	217	S. 18.....	L.....	1.35
14908	do.....	217	S. 19.....	L.....	7.83
14911	James Daley.....	283	10.....	L.....	1.77
14925	Edward Edwards, trustee.....	163	Of S. 21.....	L.....	4.31
14930	Albert Thomas.....	Blk. 16	12.....	College road.....	3.61
14931	Henry McGoing.....			Bowen road.....	.62
14932	Joseph Frank.....			Brentwood road.....	.34
14934	Moses Kelly, trustee.....	247	I.....	Massachusetts.....	4.37
14935	do.....	247	Of 4.....	Massachusetts.....	1.38
14937	Jared E. Elliott.....	288	Of 16.....	H.....	21.55
14960	Margaret Minor.....	288	Of 15.....	H.....	19.78
14974	A. Cohen.....	539	Of 13.....	Four-and-a-half.....	2.27
14980	Rufus L. B. Clark.....	690	Of S. 6.....	New Jersey.....	1.29
14983	Adam Dade.....	117	Of 13.....	Twentieth.....	5.17
14988	Charles H. Fishbaugh.....	211	L.....	Fourteenth.....	.03
14994	Sophia M. White.....	345	Of 12.....	Tenth.....	2.86
15000	Charles H. Fishbaugh.....	211	O.....	Fourteenth.....	.03
15001	do.....	211	N.....	Fourteenth.....	.03
15002	do.....	211	M.....	Fourteenth.....	.03
15023	Henry D. Burr.....	100	Of 27.....	Twentieth.....	.20
15024	John Cherry.....	104	Of 1.....	Twentieth.....	.19
15034	Levi W. Kimball.....	242	S. 1.....	Fourteenth.....	.04
15043	John Lynch.....	133	S. E.....	Nineteenth.....	2.77
15063	Joseph Follansbee.....	571	Of S. 41.....	First.....	.02
15082	Mary Ann Gibbons.....	252	S. 1.....	Thirteenth.....	1.99
15141	James Abbott.....	252	Of 1.....	Thirteenth.....	7.79
15175	Cornelia V. Godey.....	238	S. 38.....	Fourteenth.....	.03
15176	do.....	238	S. 37.....	Fourteenth.....	.02
15181	Henry Searle.....	368	Of 14.....	Tenth.....	2.62
15182	do.....	368	Of 15.....	Tenth.....	.38
15186	W. H. Martin.....	368	Of 12.....	Tenth.....	4.70
15198	Joseph Follansbee.....	571	S. 42.....	First.....	.05
15203	William Boswell.....	543	Of 22.....	K.....	18.06
15209	William H. Ward.....	487	Of 7.....	G.....	13.39
15231	C. Ingle and M. E. Hill.....	518	Of S. 5.....	G.....	.12
15240	Sandford Bilyea.....	567	Of 13.....	G.....	2.90
15242	P. Bryne <i>et al</i>	454	Of 7.....	G.....	1.01
15243	C. Ingle and M. E. Hill.....	518	Of S. 6.....	G.....	.24
15293	S. P. Waite.....	455	18.....	G.....	14.42
15296	C. C. Carruthers.....			Seventh-street road.....	9.20
15298	D. A. Straker.....			Seventh-street road.....	2.63
15305	John Walter.....	347	Of 3.....	E.....	1.27
15306	Julia A. Van Ness.....	348	Of 12.....	E.....	1.76
15307	John M. Johnson.....	378	L.....	E.....	2.70
15317	Frederick Snyder's heirs.....			Seventh-street road.....	3.33
15322	Jane D. Jackson.....			Seventh-street road.....	3.65
15339	Susan C. Nicholson.....	399	Of S. 26.....	Eighth.....	3.80
15342	Noah H. Swayne.....	290	Of 4.....	E.....	4.78
15359	John M. Gattrell.....	400	S. 31.....	Eighth.....	3.62
15365	John Nelson, jr.....	399	Of S. 20.....	Eighth.....	2.13
15366	do.....	399	Of S. 19.....	Eighth.....	2.72
15369	Edward W. Down.....	426	Of 5.....	Eighth.....	4.51
15371	Joseph Fugitt.....	570	12.....	Second.....	8.99
15372	James R. McAllister.....	568	26.....	Second.....	4.67
15422	Charles Keenan.....	536	Of 6.....	Four-and-a-half.....	4.38
15425	Bartley Knopp.....	537	S. $\frac{1}{2}$ of 17.....	Four and-a-half.....	3.14
15450	R. K. Johnson.....	122	Of 4.....	Twentieth.....	7.62
15451	Michael Welch.....	502	23.....	Sixth.....	10.59
15466	Alex. Speir.....	369	Of 20.....	Ninth.....	1.58
15490	Rose M. Kleiber.....	403	Of 4.....	Ninth.....	2.97
15517	Elon Boorehead.....	404	Of 4.....	Ninth.....	2.58
15521	Jerry L. Page.....	401	Of 8.....	Ninth.....	2.63
15523	John B. Harrison <i>et al</i>	402	Of 4.....	Ninth.....	3.69
15529	J. B. Oliver.....	401	Of 8.....	Ninth.....	3.22
15530	A. Jackson.....	401	Of 4.....	Ninth.....	2.68

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APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
15535	T. J. Robinson	401	Of 5	Ninth	\$2.01
15554	V. E. King	378	Of 25	Ninth	3.30
15572	Jacob Lyons	377	Of 20	Ninth	7.48
15573	do	377	Of 21	Ninth	7.48
15574	Adam Schriver	377	Of 22	Ninth	2.49
15579	Catharine M. Johnson	376	D	Ninth	2.61
15616	G. A. Sandford	405	Of 6	Ninth	3.82
15618	H. W. Wurdeman	405	Of 5	Ninth	2.58
15619	A. R. Sheppard	405	Of 5	Ninth	2.58
15620	do	405	Of 4	Ninth	3.82
15626	Morgan Donohoo	407	Of 6	Ninth	1.61
15635	Thomas Cookendorfer	408	C	Ninth	3.13
15641	Harriet Williamson	368	8	Tenth	.72
15642	Martin K. Walsh	340	Of S. 23	Tenth	4.16
15654	James Shugrue	134	S. 21	Nineteenth	.94
15720	Caroline Davis	629	Of S. 3	First	1.31
15723	Maria V. Brown	374	A	Tenth	8.44
15732	Richard Bowman	85	11	Twentieth	.68
15737	John Poor	75	Of 10	Twenty-second	.26
15742	Nehemiah Cobb	1005	Of 2	Maryland	.02
15745	Francis A. McCormick	693	Of 9	South Capitol	4.78
15760	Henry Searles, trustee	368	Of S. 15	Tenth	.13
15809	D. Naylor	234	S. 20	Fourteenth	.03
15810	do	234	S. 19	Fourteenth	.03
15811	do	234	S. 24	Fourteenth	.03
15812	do	234	S. 25	Fourteenth	.03
15826	Benjamin Owen	728	26	A	10.65
15843	James H. Jackson	197	S. 33	Sixteenth	4.93
15844	James Lewis	197	S. 34	Sixteenth	3.48
15848	Jacob E. Lyon	349	Of 1	Tenth	5.22
15849	Mary Ann Harvey	349	S. A	Tenth	.16
15850	John Hitz, trustee	349	S. E	Tenth	.10
15862	L. S. Woodward, trustee	345	Of 12	Tenth	2.23
15863	Henry Turner	345	Of 13	Tenth	1.45
15867	Francis J. McNally	421	Of S. 17	Eighth	3.77
15879	Z. D. Gilman	369	S. 52	Tenth	3.59
15891	Thos. Gardner	206	113	Pierce Place	.62
15892	Edwin Potbury	206	116	Pierce Place	.26
15912	John Wilson	343	6	K	14.10
15914	Henry Messer	538	Of 18	E	1.64
15915	Emma Tucker	905	Part	I	7.94
15916	R. S. Collins, trustee Wm. M. Cross	494	Of 1	E	1.53
15932	Thos. E. Waggaman	675	S. 141	Myrtle	13.20
15934	Morris Schollosser	675	S. 139	Myrtle	13.20
15936	Isabella Fleming	675	S. 218	Myrtle	13.74
15937	Fannie L. Moetzer	88	Of 100	Beall	.75
15941	George F. Gulick	941	Of 6	Ninth	1.80
15944	Henry O. Johnson	499	Of 13	Sixth	4.40
15946	do	499	Of 14	Sixth	4.08
15947	A. Provost, trustee	292	Of 4	Thirteenth	3.50
15949	Richard Holmes, sr.	594	Of S. I	Third	1.34
15950	do	594	Of S. K	Third	2.16
15954	John Buckley	540	Of S. 47	G	1.19
15961	James H. King	48	Of 14	Prospect	.11
15973	John McCarthy	470	4	K	4.99
15987	Israel B. Thompson	344	Of S. 11	Tenth	10.75
16036	W. W. McNeir heirs	70	Of 128	Dunbarton	3.01
16042	John T. Norris	65	Of 141	Dunbarton	.11
16051	A. Robb	539	Of 11	Four-and-a-half	.74
16058	James McIntosh	670	Of 3	New Jersey	1.07
16060	Susan G. Nicholson	399	Of S. 27	Eighth	3.78
16061	Marianna B. Lathrop	284	12	Thirteenth	37.85
16064	Mary M. Manning	569	S. 45	Second	3.05
16067	Mary A. Dyer	132		Dunbarton	8.91
16082	John Walter	293	Of 11	Thirteenth	9.91
16097	Edwin Stewart	288	Of 17	H	4.96
16099	Margaret Minor	288	Of 15	H	6.04
16103	Elizabeth A. Byington	469	33	Sixth	7.01
16127	John W. Shiles	532	S. 13	E	2.13
16136	David Edes and C. Bodisco		Of 147	Green	.16
16150	Samuel Steinmetz	532	Of 9	E	.26
16151	G. P. Page	532	Of 9	E	1.93
16157	John J. Luckett	497	Of 10	Sixth	1.99
16162	Alex. R. Shepherd	575	E	Second	28.85
16199	James G. Naylor	N. 515	S. 33	New York	.50
16200	do	N. 515	S. 36	New York	2.27
16202	Isaac Dorsey	514	Of 8	New York	.41
16203	George W. Rothwell	206	65	Pierce Place	2.26

APPENDIX I.—Statement of drawback certificates, etc. — Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
16209	George Dice.....	341	9.....	Tenth.....	\$2.49
16223	Ann E. McLaughlin.....	450	S. 21.....	Seventh.....	1.15
16225	James F. Caden.....	450	S. 19.....	Seventh.....	.26
16233	Isaac Rosenthal.....	485	S. 27.....	Fifth.....	1.05
16236	F. and W. H. Brooks.....	369	S. 13.....	Fifth.....	.78
16240	John Murphy.....	369	6.....	Tenth.....	1.89
16244	Charles Drain.....	372	Of 13.....	Tenth.....	.12
16245	do.....	372	Of 14.....	Tenth.....	.12
16263	Caroline Rasher.....	425	Of S. 22.....	Seventh.....	.92
16265	Mary E. Shelly.....	447	S. 9.....	Seventh.....	.24
16282	Alex. R. Shepherd.....	144	S. 20.....	Seventeenth.....	.43
16292	Mary Hessler.....	492	A.....	Four-and-a-half.....	32.30
16299	J. D. Hoover.....	106	9.....	I.....	4.43
16300	Angelica Hoover.....	106	10.....	I.....	4.92
16316	John Heil.....	539	Of 13.....	Four-and-a-half.....	1.72
16323	Wm. Buckley.....	541	15.....	Four-and-a-half.....	10.43
16333	Caleb Cushing.....	500	S. 46.....	Four-and-a-half.....	6.13
16348	Jas. McManus.....	122	Of 5.....	Twentieth.....	.12
16376	Chas. Kunner.....	454	Of 12.....	Seventh.....	.17
16379	Elon Boorehead.....	404	Of 4.....	Ninth.....	5.98
16388	Wm. B. Todd, jr.....	117	Of 30.....	Nineteenth.....	2.08
16399	Ann Kedghee.....	86	18.....	Nineteenth.....	1.75
16417	Susan Baltzer.....	319	1.....	G.....	1.47
16441	Henry Smith.....	99	S. 13.....	Twentieth.....	7.84
16445	John Farrell.....	117	Of 8.....	Twentieth.....	6.58
16453	John B. Turton.....	3	Of 82, 83.....	Water.....	10.87
16474	Benj. A. Farless.....	207	S. 81.....	Fourteenth.....	.84
16478	Geo. W. Riggs & G. H. Plant.....	208	S. 102.....	Fourteenth.....	.33
16489	T. W. Soran.....	375	S. 101.....	G.....	1.42
16492	Jacob C. Miller.....	204	S. 36.....	Fourteenth.....	.01
16537	Walter G. Hurley.....	281	Of S. 16.....	Thirteenth.....	5.41
16538	do.....	281	Of S. 16.....	Thirteenth.....	2.91
16540	Isabella Kahle.....	166	S. 19.....	Seventeenth.....	.45
16543	John P. Ingle.....	166	Of 1.....	Seventeenth.....	4.59
16549	Herman Blair.....	223	Of 1.....	G.....	5.14
16555	Johnson Hellen.....	223	Of 1.....	G.....	17.02
16564	John Cook.....	289	Of 17.....	G.....	.86
16577	William H. Phillips.....	126	Of 31.....	Seventeenth.....	1.98
16587	John L. Kidwell.....	289	S. 32.....	Thirteenth.....	.44
16590	J. C. Kennedy, jr.....	285	Of 13.....	Thirteenth.....	.54
16596	Benjamin Reiss.....	224	Of 13.....	G.....	3.17
16597	Joseph Abbott.....	252	Of 1.....	G.....	39.88
16599	Margaret Kelly.....	293	Of 7.....	Thirteenth.....	.23
16605	Margaret Stewart.....	405	Of 2.....	G.....	2.10
16622	J. L. Roberts.....	340	Of 10.....	Eleventh.....	4.87
16630	William W. Leshear.....	438	4.....	H.....	35.48
16631	T. T. Fowler and J. Heltinger.....	390	S. 15, 16.....	H.....	44.20
16662	Mary E. Pritchard.....	623	S. 96.....	Defrees.....	1.57
16663	Andrew Grogan.....	623	S. 95.....	Defrees.....	1.57
16665	Patrick McManus.....	623	S. 111.....	Defrees.....	13.73
16668	Sarah A. C. Sparrow.....	623	S. A.....	Defrees.....	6.67
16669	Sarah A. Stone.....	623	S. 81.....	Defrees.....	12.91
16670	Ives B. Howe.....	623	S. 76.....	Defrees.....	1.57
16675	Charles White <i>et al</i>	623	S. 68.....	Defrees.....	1.57
16678	James M. Davidson.....	623	S. 91.....	Defrees.....	1.57
16679	Daniel W. Smith.....	623	S. 92.....	Defrees.....	1.57
16681	Harriet M. Tastel.....	623	S. 58.....	Defrees.....	13.73
16682	C. B. Calvert.....	623	S. 57.....	Defrees.....	1.57
16683	Matthew C. Baxter.....	623	S. 56.....	Defrees.....	1.57
16684	William B. Evans, trustee.....	623	S. 55.....	Defrees.....	1.57
16686	Nathan Evans.....	623	S. 53.....	Defrees.....	1.58
16687	Charles Herman.....	623	S. 50.....	Defrees.....	1.57
16690	Lewis E. Walker.....	623	S. 106.....	Defrees.....	1.57
16693	Joseph H. Hollidge.....	510	S. 71.....	Franklin.....	16.72
16694	Mathew Morton.....	510	S. 75.....	Franklin.....	17.27
16698	Thomas J. Mattingly.....	623	S. 109.....	Defrees.....	13.74
16704	Richard C. Gill.....	306	S. 21.....	S.....	3.36
16705	Joseph Lackey.....	306	S. 26.....	S.....	3.37
16707	William W. Dean.....	306	S. 30.....	S.....	3.37
16714	James Taylor.....	238	Of 1.....	S.....	5.08
16717	Mary Cratley.....	N. 508	S. 4.....	S.....	5.76
16749	T. & W. H. Brooks.....	408	S. 13.....	Fifth.....	12.90
16751	Henry M. Baker.....	206	12.....	S.....	2.04
16785	Sarah Gibson.....	313	Of 2.....	Twelfth.....	3.89
16788	John T. Wineberger.....	313	Of 3.....	Twelfth.....	5.34
16790	George Lyles.....	313	Of S. D.....	Twelfth.....	.73
16791	do.....	313	S. E.....	Twelfth.....	3.15
16792	Henry Hopp.....	313	Of 5.....	Twelfth.....	4.86

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
16804	James W. Patterson	732	S. 23	Carroll	\$1.65
16805	Edward V. Freyholde	732	S. D.	Duddington Place	.54
16806	Dominica Christophani	732	S. A	Duddington Place	.54
16807	Henry McIntire	334	Of S. 4	S	2.02
16815	do	334	Of S. 5	S	.38
16816	Edwin A. McIntire	334	S. 2	S	3.39
16817	do	334	S. 3	S	3.38
16818	do	334	Of S. 4	S	.75
16823	Sidney F. Austin	334	Of S. 5	S	3.00
16834	Henry Caspari	516	Of 1	I	1.95
16835	Iradella Raub	516	Of 2	I	3.01
16836	Thomas Sullivan	516	Of 3	I	2.49
16837	George Miller	516	Of 5	I	2.99
16838	John E. Weys	516	Of 8	I	2.26
16839	John T. Wineberger	S. 516	Of 18	I	2.98
16840	Benjamin Saloman	S. 516	Of 14	I	2.39
16841	Thomas J. Triplett	S. 516	Of 13	I	2.48
16853	Michael and Bryan Green	278	S. 15	Twelfth	17.66
16854	do	278	S. 14	Twelfth	9.26
16856	Robert H. Spindle	365	Of S. 95	Alley	.59
16862	Leonard B. Prather	516	Of 6	I	3.30
16863	do	516	Of 5	I	2.99
16864	J. Johnson (of Beyant)	516	Of 7	I	3.99
16874	Richard Jackson	494	Of S. D.	School	1.51
16875	Harrison Arnold	516	Of 3	I	2.05
16876	John Gerlack	878	Of 42	Seventh	.62
16879	Charles Meyer's heirs	73	Of 7	Dunbarton	5.45
16885	Frank Renshaw	62	Of 3	Dunbarton	6.82
16891	Lewis F. Barber	494	S. L	School	1.51
16892	do	494	S. K	School	1.51
16893	Nathan T. Ginlay	17	Of 16	Twenty-fifth	1.93
16897	Daniel W. Middleton	732	S. 3	C	19.69
16899	Chauncey Hickox	623	S. B	North Capitol	16.78
16906	Matilda Jacobi et al	455	Of 12	Seventh	10.05
16909	George Smithson	874	Of S. N	D	1.80
16910	do	874	S. O	D	3.63
16911	Hiram B. Leonard	874	S. Q	D	11.01
16912	do	874	S. P	D	3.13
16920	Jemima P. Ball	513	Of 27	Fourth	.22
16923	Augustus Davis	513	Of 27	Fourth	.24
16924	Henry B. Philbrook	513	Of 27	Fourth	.06
16926	Henry Munn	757	S. C	Second	.19
16927	do	757	S. B	Second	.20
16928	do	757	S. A	Second	.39
16931	Susan S. and Ellen C. Dangerfield	725	1	Second	3.79
16932	do	725	32	Second	10.91
16933	Jennie M. Nichols	725	S. B	Second	4.54
16934	G. F. Wassman	725	S. G	Second	1.84
16935	Henry C. Lee	725	S. F	Second	1.55
16936	Henry E. Marks, trustee M. A. Hamilton.	869	Of 8	A	4.26
16937	Mary W. Aiken				
16938	Harvey J. Norton	869	Of 8	A	4.24
16951	William Gibson	842	Of 10	A	13.41
16952	Moses Kelly	628	S. 7	F	1.71
16956	William H. Anderson	628	S. 79	F	1.71
16957	Winn y Thompson	518	Of S. 25	Washington	3.92
16958	Rudolph Buckley	518	Of 2	Washington	2.77
16959	Orville Drown	518	Of 6	Washington	6.27
16965	Edward H. Courtenay	510	S. 20	Fifth	3.11
16966	Daniel F. Eicholtz, trustee.	60	S. 16	E	.51
16968	John D. W. Moore	477	Of 9	Fifth	21.48
16975	Turner Torey	S. 277	S. 1	Thirteenth	12.15
16979	Lewis G. Magruder	762	Of 2	C	3.01
16980	Thomas H. Quincy	510	S. 22	Fifth	10.28
16981	John S. Blankman	510	S. 29	Fifth	10.28
16982	do	761	S. 20	B	7.40
16994	William H. Hollidge	761	S. 19	B	7.40
16996	John W. Shiles	510	S. 122	Fifth	2.91
17001	Isaac L. Johnson	510	S. 32	Fifth	10.29
17002	William B. Todd, jr	589	9	Third	5.38
17003	Seth J. Todd	587	Of 11	Third	13.49
17015	Harrington Putnam	587	Of 11	Third	13.49
17017	Rosa M. Cochran	206	S. 164	T	8.53
17027	Sampson D. Talbot	274	S. 8	T	12.88
17030	Frederick B. Smith	152	S. 68	T	11.68
17032	R. W. D. Bryan	132	S. 79	T	13.11
17036	Charles H. Knowlton	131	S. 51	T	14.31
		205	Of 4	T	12.14

APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
17041	William H. Cook	877	Of 27	Seventh	\$1. 91
17042	William H. Johnson	877	Of 34	Seventh	2. 37
17043	Joseph Burroughs	877	Of 29	Seventh	1. 90
17044	Joseph Trimble	905	Part	Seventh	2. 69
17045	George W. Street	902	Of 4	Seventh	4. 27
17046	Jane Moss	903	Of S. Q. 6	Seventh	. 99
17050	Samuel Brown	Prath- er's sub.	156	Eighth	4. 65
17051	Isabella M. Ashford	912	S. 10	Eighth	6. 25
17054	Joshua Ritchie	896	Of 8	Eighth	18. 85
17055	Virginia M. Davis	904	Of 7	Seventh	1. 47
17073	Isabella W. Ashford	912	S. 9	Eighth	6. 25
17087	John B. Boone	347	Of 15	Tenth	29. 59
17096	Dwight R. Waters	516	Of 8	I	2. 26
17106	Mary A. S. Carey	870	Of 21	A	7. 02
17107	Edward Hierling	870	Of 20	A	13. 68
17108	Alfred Marshall	870	Of 19	A	13. 77
17113	Abner B. Kelly	628	87	F	1. 72
17114	Almira Thompson	725	S. H	Second	1. 55
17121	Mary Shannon	724	Of 24	Second	. 58
17126	James W. Lambert	523	Of S. H	Fourth	. 20
17127	Edward H. Courtenay	60	S. 15	E	. 35
17128	do	60	S. 14	E	. 34
17130	Martha E. Boreland	511	S. 70	Fifth	. 94
17131	James N. Davis	511	S. 71	Fifth	13. 28
17172	Samuel Dohnea	102	Of 4	G	4. 27
17184	do	102	Of 3	G	4. 62
17191	J. Boreland and E. H. Doherty, exrs ..	194	50	Samson street ..	22. 49
17192	do	194	S. 51	Samson street ..	22. 49
17203	V. E. King	378	Of 25	Ninth	1. 60
17207	Jacob Lyons	377	20	Ninth	27. 23
17208	do	377	21	Ninth	27. 23
17242	R. J. Beall	374	Of 19	Ninth	. 67
17247	Louise B. Schreiner	180	S. 66	Samson street ..	22. 25
17248	do	180	S. 67	Samson street ..	22. 25
17255	Francis Howard	209	S. 52	Samson street ..	21. 49
17262	A. J. Joyce	209	Of S. 37	Samson	9. 99
17280	Matilda Robinson	499	Of 3	Alley	2. 39
17281	Thomas Neale	499	16	Alley	3. 61
17282	Charles A. Wells, trustee	499	17	Alley	9. 93
17284	John Ossinger	480	Of 4	Alley	. 22
17285	John Wagner	480	Of 16	Alley	. 06
17286	C. F. Fender	480	Of 6	Alley	. 20
17287	John Ossinger	480	Of 3	Alley	. 06
17289	J. L. Smith	325	Of 5	Twelfth	2. 14
17290	do	325	Of 5	Twelfth	6. 75
17291	Francis Pleasants	367	D	Alley	4. 04
17292	John R. Wright	367	S. 29	Alley	4. 41
17293	William G. Metzerott	367	S. 39	Alley	4. 41
17303	Wilton Woodworth	207	S. 55	Alley	2. 79
17304	Thomas Weaver	207	S. 62	Alley	2. 71
17306	Elizabeth M. Sheldon	368	S. 21	Alley	2. 91
17310	Gilbert C. Walker	103	17	Alley	5. 25
17311	do	103	18	Alley	5. 41
17314	Susan C. Zevely	375	S. 81	Alley	5. 19
17315	Charles R. Thomas	375	S. 104	Alley	5. 11
17317	John M. Brodhead	465	S. 52	Alley	. 97
17318	Thomas Dixon	465	Of S. 51	Alley	. 73
17320	Benj. Fugitt, trustee of C. Clark	465	Of S. 60	Alley	. 52
17321	Sarah A. Gregory	465	Of S. 60	Alley	. 52
17325	Benjamin King	279	S. 10	Alley	9. 64
17330	Charles Sioussa	121	S. C	Alley	. 95
17332	Mary Kraft	424	Of 15	Alley	5. 88
17337	John B. Bloss	365	S. 128	Alley	. 72
17338	Chase Roy, trustee L. P. H. Rogers ..	365	S. 93	Alley	5. 23
17340	Robert H. Spindle	365	Of S. 96	Alley	4. 37
17351	Henry Ellenbrook	492	Of 3	Alley	2. 44
17353	Samuel King	492	S. 101	Alley	1. 74
17359	Elizabeth B. Kendall	492	S. Q.	Alley	2. 64
17374	George E. Moore	N. 515	Of 4	Alley	17. 79
17375	John Wise	624	Of 73	Alley	2. 84
17376	do	624	Of 72	Alley	2. 84
17377	do	624	S. F	Alley	2. 93
17378	Charles King	462	S. 12	Alley	. 92
17385	William S. Thompson	280	S. D	Alley	7. 18
17432	Horace Capron	245	S. 10	Alley	23. 42
17433	J. B. Blake, trustee Marg't A. Blake ..	245	S. 9	Alley	18. 77
17434	Samuel Kirby	216	9	Alley	30. 91

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APPENDIX I.—Statement of drawback certificates, etc.—Continued.

Number of certificate.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
17437	Josephine C. Bacon	495	1.....	F.....	\$16. 10
17439	George R. Hall	163	31.....	Connecticut	. 74
17445	John P. Idt	113	25.....	Connecticut	4. 56
17446	do	113	25.....	(Circle) Connecticut	5. 32
17452	E. H. Gray	375	80.....	Grant	10. 05
17453	William F. Nelson	375	77.....	Grant	10. 06
17455	William D. Baldwin.....	375	75.....	Grant	9. 05
17464	F. W. Hayden	375	66.....	Grant	11. 07
17465	E. D. Woodruff, trustee.....	375	67.....	Grant	11. 07
17467	J. E. Rankin.....	375	83.....	Grant	10. 34
17468	John R. Goodwin.....	375	Of 68.....	Grant	. 20
17469	do	375	69.....	Grant	10. 06
17480	Susan C. Zevely.....	375	81.....	Grant	11. 07
17488	B. F. Moxley	166	7.....	Pennsylvania	4. 11
17497	Patrick Daily	775	S. 15.....	K.....	1. 59
17502	Bladen Dulaney	118	Of 2.....	Pennsylvania	2. 65
17504	Zalmon Richards.....	240	27.....	Corcoran	4. 39
17505	do	240	28.....	Corcoran	4. 39
17506	do	240	29.....	Corcoran	4. 39
Total.....					11, 719. 22

APPENDIX II.—Statement of outstanding lien certificates issued by the late Board of Public Works and not held by the commissioner of the sinking fund.

Number of lien.	Amount.	Number of lien.	Amount.	Number of lien.	Amount.
5	\$187. 08	1537	\$107. 37	2344	\$147. 77
50	37. 35	1538	107. 37	2364	84. 95
51	130. 72	1539	107. 37	2413	12. 40
177	89. 58	1564	132. 19	2416	12. 40
181	316. 08	1566	273. 57	2666	116. 40
182	171. 80	1621	102. 96	2786	351. 60
200	177. 16	1680	936. 31	2813	74. 28
206	396. 03	1681	289. 38	3017	98. 33
341	84. 69	1682	404. 47	3033	53. 34
347	399. 11	1903	82. 33	3057	73. 34
534	86. 22	1932	181. 04	3094	1. 39
602	26. 72	1933	121. 25	3194	226. 03
624	40. 93	1939	122. 15	3296	200. 00
674	836. 55	1940	122. 16	3378	7, 068. 00
693	384. 39	1982	158. 88	3379	4, 103. 30
703	105. 57	2006	99. 91	3380	716. 80
802	252. 02	2013	128. 44	3381	11, 842. 60
803	252. 02	2014	153. 51	3382	7, 577. 60
833 (vel., 19977).....	358. 02	2015	517. 53	3383	2, 894. 50
838	172. 32	2016	89. 00	3384	444. 80
839	665. 58	2019	134. 33	3385	7, 362. 00
910	161. 39	2020	158. 88	3386	1, 052. 80
914	131. 42	2021	153. 53	3407	601. 54
990	109. 42	2026	139. 15	3438	43. 68
991	222. 34	2034	498. 37	3439	9. 69
1021	642. 60	2041	117. 22	3441	53. 48
1114	89. 03	2057	109. 12	6038	94. 25
1119	158. 48	2103	285. 44	6042	160. 20
1120	56. 71	2104	301. 89	6043	52. 98
1142	130. 74	2105	285. 44	6044	114. 32
1148	148. 70	2106	285. 44	6053	9. 13
1178	174. 74	2107	285. 44	6056	9. 14
1179	123. 20	2108	301. 89	6061	76. 86
1217	947. 11	2109	301. 89	6062	42. 96
1377	231. 41	2110	142. 73	6085	1. 35
1378	771. 53	2116	263. 04	19084	266. 64
1514	224. 20	2117	290. 82	COUNTY,	
1526	107. 38	2121	133. 39		
1527	107. 37	2122	133. 39		
1528	107. 37	2207	24. 14		
1529	107. 37	2216	253. 36		
1530	107. 37	2218	253. 37		
1531	107. 37	2221	464. 90		
1533	107. 37	2225	13. 95		
1534	107. 37	2227	92. 99		
1535	107. 37	2250	239. 74		
1536	107. 37				66, 623. 90

APPENDIX III.—Statement of amounts of outstanding lien certificates subject to redemption in drawback certificates upon presentation and demand.

Number of lien.	Amount.	Number of lien.	Amount.	Number of lien.	Amount.
1681	\$38. 74	3387	\$32. 00	3390	\$54. 36
1682	54. 13	3388	24. 70		
1933	15. 97	3389	3. 81		223. 71

APPENDIX IV.—Statement of drawback certificates received for account of sinking fund by this division, in accordance with orders of Commissioners of the District of Columbia, dated April 17, 1880, and July 1, 1880, and transmitted to the auditor of the District of Columbia, under order of Commissioners of the District of Columbia, dated March 8, 1881, from June 30, 1887, to June 30, 1888.

Date.	Amount.	Date.	Amount.	Date.	Amount.
July 14, 1887	\$28. 35	Oct. 5, 1887	\$96. 28	Dec. 19, 1887	\$112. 16
Aug. 19, 1887	5. 88	Oct. 14, 1887	7. 66	Jan. 30, 1888	19. 23
Sept. 6, 1887	116. 14	Nov. 5, 1887	10. 90	May 1, 1888	120. 61
Sept. 16, 1887	8. 30	Nov. 18, 1887	2. 46		
Sept. 19, 1887	1. 36	Nov. 25, 1887	42. 09		571. 42

APPENDIX V.—Statement of lien certificates not held by the commissioner of the sinking fund settled by surrender or by payment with interest.

Number of lien.	Date of payment.	Amount.	To whom paid.
177	1886. Oct. 14	\$23. 81	William Yorke AtLee (omitted in last report).
43 (Georgetown)	1887. July 5	137. 50	William Yorke AtLee.
2762	July 5	70. 32	Do.
2763	July 5	4. 71	Do.
777	July 8	166. 57	Daniel O'C. Callaghan.
2589	Aug. 12	119. 65	George T. Stewart.
2588	Aug. 12	134. 66	Do.
2789	Aug. 12	453. 21	Do.
1997	Aug. 26	264. 27	B. H. Warner & Co.
2181	Sept. 6	578. 06	John Savary.
1787	Sept. 8	87. 53	By surrender.
3413	Sept. 20	1, 078. 63	Masonic Hall Association.
3412	Sept. 20	987. 94	Do.
2121	Sept. 26	17. 40	By partial cancellation.
2122	Sept. 26	17. 40	Do.
55 (county)	Sept. 29	12. 37	Do.
2363	Oct. 5	84. 95	William Yorke AtLee.
2097	Nov. 25	228. 77	S. J. Block.
2098	Nov. 25	249. 32	Do.
982	Nov. 26	147. 06	W. K. Butler.
486	Nov. 30	369. 88	S. J. Block.
1613	Nov. 30	106. 21	William Yorke AtLee.
3428	Dec. 1	86. 70	Thomas Wilson.
414	Dec. 7	72. 97	Ferdinand Schmidt.
1004	Dec. 13	542. 60	H. W. Blunt.
1146	Dec. 13	64. 39	Do.
1147	Dec. 13	89. 34	Do.
1660	Dec. 16	147. 51	William Yorke AtLee.
1594	Dec. 16	118. 02	Do.
44 (county)	1888. Jan. 27	58. 68	Fitch, Fox & Brown.
969	Feb. 18	135. 01	John Patch.
3442	Feb. 18	69. 35	Lewis Jackson.
778	Feb. 20	45. 18	M. D. Peck.
3437	Feb. 23	20. 60	Daniel O'C. Callaghan.
1302	Feb. 24	1, 091. 93	William Yorke AtLee.
6057	Feb. 24	15. 46	Jesse B. Wilson.
3443	Feb. 25	169. 27	Mary Ready.
5 (Georgetown)	Feb. 28	76. 20	William Yorke AtLee.
279	Feb. 28	97. 40	Do.
280	Feb. 28	173. 61	Do.
353	Feb. 28	34. 21	Do.

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APPENDIX V.—Statement of lien certificates not held by the commissioner of the sinking fund, etc.—Continued.

Number of lien.	Date of payment.	Amount.	To whom paid.
	1888.		
354.....	Feb. 28	\$60.98	William Yorke AtLee.
525.....	Feb. 29	141.48	Do.
3353.....	Mar. 7	68.62	A. C. Clark.
3354.....	Mar. 7	68.62	Do.
3355.....	Mar. 7	68.62	Do.
6064.....	Mar. 19	1.17	By surrender.
6086.....	Mar. 26	3.24	A. H. Halt.
6063.....	Mar. 26	3.67	Do.
6077.....	Mar. 26	1.30	Do.
6075.....	Mar. 26	108.40	Do.
1672.....	Mar. 29	590.03	Daniel O'C. Callaghan.
1671.....	Mar. 29	777.38	Do.
2414.....	Apr. 5	12.40	Thomas E. Waggaman.
3446.....	May 8	58.46	Mary Ready.
		10,413.02	

APPENDIX VI.—Statement of lien certificates not held by the commissioner of the sinking fund, outstanding for amounts paid into court by property owners.

Number of lien.	Amount.	Number of lien.	Amount.	Number of lien.	Amount.
484.....	\$195.56	541.....	\$43.01	616.....	\$28.05
485.....	22.62	542.....	43.02	621.....	47.56
487.....	132.20	546.....	124.37	622.....	31.92
488.....	225.63	571.....	44.49	630.....	8.67
496.....	134.36	572.....	44.77	631.....	25.07
500.....	46.17	573.....	44.77	632.....	22.50
507.....	48.10	587.....	49.53	633.....	47.56
521.....	35.11	588.....	34.98	645.....	42.69
522.....	18.04	591.....	79.86	646.....	38.47
523.....	13.99	592.....	40.01	647.....	38.47
533.....	49.53	593.....	28.30	648.....	37.88
534.....	59.19	600.....	38.48		
535.....	22.19	602.....	42.74		
539.....	124.27	603.....	182.56		
540.....	92.31	609.....	43.73		
					2,472.73

APPENDIX VII.—Statement of property sold February 23, 1888, for the satisfaction of lien certificates held by third parties.

Number of lien.	To whom assessed.	Square.	Lot.	Street or avenue.	Amount.
75 (county)...	Abigal Shoemaker.....	West side of Seventh street road.			\$31.52
189.....	Martha A. Salter.....	27	Of 3.	Pennsylvania...	27.01
421.....	James H. Boss.....	(*)	Of 1.	Fourth.....	61.53
1243.....	Thomas Lawson.....	122	Of 9.	F.....	30.37
1543.....	Peter McNamara.....	787	Of 10.	East Capitol....	5.91
1565.....	N. G. Ordway.....	728	11.....	East Capitol....	273.57
1637.....	Emanuel Mason.....	869	23.....	East Capitol....	356.07
1979.....	J. C. Connally.....	497	28.....	Four-and-a-half.	291.93
2035.....	W. A. Barnes.....	534	A.....	Four-and-a-half.	93.36
2036.....	do.....	534	B.....	Four-and-a-half.	93.82
2059.....	Mark Young.....	536	Of 6.	Four-and-a-half.	123.91
2094.....	J. Frazier.....	540	Of 13.	Four-and-a-half.	132.66
2209.....	William Blanchard.....	24	B.....	M.....	129.58
2210.....	do.....	24	A.....	M.....	129.58
					1,780.82

* South of 516.

E.

COLLECTOR OF TAXES.

OFFICE OF COLLECTOR OF TAXES,
DISTRICT OF COLUMBIA,
Washington, ———, 18—.

GENTLEMEN: I have the honor to submit the following estimate of the expenses of this office for the fiscal year ending June 30, 1890:

For collector of taxes.....	\$4,000
For one clerk as cashier.....	1,800
For one clerk as book-keeper.....	1,600
For four clerks, at \$1,400.....	5,600
For three clerks, at \$1,200.....	3,600
For one clerk as coupon clerk.....	1,000
For messenger.....	600
For contingent expenses.....	1,500
Total.....	19,700

Respectfully submitted.

E. G. DAVIS,
Collector of Taxes, D. C.

Hon. COMMISSIONERS DISTRICT OF COLUMBIA.

OFFICE OF COLLECTOR OF TAXES,
DISTRICT OF COLUMBIA,
Washington, September 1, 1888.

GENTLEMEN: I have the honor to submit accompanying detailed report of the business of this office for the year ending June 30, 1888:

GENERAL FUND.

The following statement shows the amount of tax balances with which this office was debited at the beginning of the fiscal year commencing July 1, 1887; also the amount of tax levies, real and personal, for the year ending June 30, 1888; together with the amounts received for collection on account of the water fund, licenses, dog-tax, fees, penalties,

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etc., and the amount collected on account of the same, during the fiscal year ending June 30, 1888:

	Dr.		Cr.	
	To amount charged.		By amount collected.	
Balance of taxes due July 1, 1887:				
Realty tax—				
For the years 1845 to 1870.....			\$3,988.56	
For the year ending June 30—				
1872.....			475.55	
1873.....	\$4,124.88		2,989.92	
1874.....	22,920.96		11,507.59	
1875.....	43,219.22		20,041.91	
1876.....	18,614.42		9,206.95	
1877.....	39,635.93		12,095.20	
1878.....	29,431.04		13,520.66	
1879.....	37,259.13		13,728.58	
1880.....	49,905.60		15,856.48	
1881.....	49,762.29		17,510.71	
1882.....	49,399.10		19,528.37	
1883.....	54,120.08		22,489.53	
1884.....	58,634.81		23,045.94	
1885.....	71,437.28		30,503.06	
1886.....	88,973.41		40,248.63	
1887.....	198,283.88		117,424.85	
1888.....	1,657,317.34		1,462,790.77	
		\$2,473,039.37		\$1,836,953.26
To amount collected in excess of what was charged to collector on account of assessment of general tax arrears, 1845 to 1870.....		3,988.56		
To amount collected in excess of what was charged to collector on account of assessment of general tax, 1872.....		475.55		
		4,464.11		
Personal tax:				
For the year ending June 30—				
1877.....	30,066.84			
1878.....	71,827.52			
1879.....	34,124.35			
1880.....	15,765.92			
1881.....	23,123.67			
1882.....	7,351.52			
1883.....				
1884.....	7,241.99			
1885.....	27,895.00			
1886.....	30,953.87		9.75	
1887.....	33,216.71		5,045.20	
1888.....	164,151.87		145,003.42	
		\$415,719.26		\$150,056.37
To amount of penalty on realty tax, as follows:				
For the years 1845 to 1870.....			2,804.24	
For the year ending June 30—				
1872.....			553.24	
1873.....			2,922.01	
1874.....	2,922.01		9,218.84	
1875.....	9,218.84		15,931.23	
1876.....	15,931.23		6,629.79	
1877.....	6,629.79		8,010.26	
1878.....	8,010.26		7,985.57	
1879.....	7,985.57		7,327.42	
1880.....	7,327.42		7,546.74	
1881.....	7,546.74		7,366.97	
1882.....	7,366.97		6,877.29	
1883.....	6,877.29		6,453.92	
1884.....	6,453.92		5,472.31	
1885.....	5,472.31		5,571.59	
1886.....	5,571.59		5,141.28	
1887.....	5,141.28		14,440.89	
1888.....	14,440.89		7,790.65	
		124,686.76		128,044.24
To amount of penalty on taxes collected in excess of what was charged to collector on account of assessment of general tax arrears, 1845 to 1870.....		2,804.24		
To amount of penalty on taxes collected in excess of what was charged to collector on account of assessment of general tax, 1872.....		553.24		
		3,357.48		

	Dr.		Cr.	
	To amount charged.		By amount collected.	
To amount of penalty on personal tax, as follows:				
For the year ending June 30—				
1886.....	\$3. 91		\$3. 91	
1887.....	520. 22		520. 22	
1888.....	354. 83		354. 83	
		\$878. 96		\$878. 96
To amount of miscellaneous items received for collection, as follows:				
Washington redemption fund—				
Principal.....	\$641. 40			
Interest.....	49. 64			
	691. 04		691. 04	
Special tax (corporation of Washington)—				
Principal.....	\$5, 005. 21			
Interest.....	8, 438. 30			
	13, 443. 51		13, 443. 51	
Licenses.....	138, 981. 55		138, 981. 55	
Dog tax.....	11, 540. 41		11, 540. 41	
Permit fees.....	3, 549. 00		3, 549. 00	
Fees for certificates.....	2, 310. 50		2, 315. 00	
Material furnished plumbers.....	330. 97		330. 97	
Advertising tax arrears (1875 to 1887).....	7, 009. 29		7, 009. 29	
Advertising special assessments:				
1875.....	307. 98		307. 98	
1888.....	419. 63		419. 63	
Market rents:				
Eastern.....	\$3, 111. 00			
Western.....	5, 847. 80			
Georgetown.....	1, 247. 59			
Washington.....	7, 500. 00			
	17, 706. 39		17, 706. 39	
Police court fines:				
District of Columbia.....	\$24, 140. 46			
United States.....	11, 865. 73			
	36, 006. 19		36, 006. 19	
Criminal court fines.....	2, 275. 64		2, 275. 64	
Collections, assistant district attorney.....	1, 051. 40		1, 051. 40	
Building permits.....	7, 846. 55		7, 846. 55	
Redemption of assessment certificates.....	433. 32		433. 32	
Sale of hay-scales.....	3, 019. 10		3, 019. 10	
Inspecting and proving gas-meters (one-half).....	352. 00		352. 00	
For deed in fee-simple (block 3, lots 8 and 9, Howard University, northwest).....	480. 00		480. 00	
Sale of old material.....	148. 50		148. 50	
Auctioneers' returns from special sales.....	66. 68		66. 68	
Sale of fish-wharf.....	1, 014. 12		1, 014. 12	
Pound fees.....	391. 75		391. 75	
Rent of District of Columbia property.....	3, 740. 00		3, 740. 00	
Use of steam-engine and roller.....	90. 00		90. 00	
Making copy of District of Columbia reports.....	3. 00		3. 00	
Special deposit transferred to general fund, certificate No. 91.....	50. 00		50. 00	
Return of erroneously paid special tax.....	166. 17		166. 17	
Surplus from tax sale.....	82. 00		82. 00	
Cost of removal of coal from sidewalk.....	1. 00		1. 00	
Amount of judgment United States circuit court, Alexandria, Va., Hay vs. Alexandria and Washington Railroad.....	62, 818. 31		62, 818. 31	
		316, 326. 00		316, 326. 00
Water fund:				
Water-main tax advertised—				
Principal.....	\$8, 605. 53			
Interest.....	5, 120. 55			
	13, 726. 08		13, 726. 08	
Water rents, taps, permits, etc.....	201, 423. 18		201, 423. 18	
		215, 149. 26		215, 149. 26
Total		3, 583, 621. 20		2, 647, 410. 09
By amount of remitted taxes, case of Alexandria and Washington Canal, Railroad, and Bridge Company; equity No. 8,548.....				12, 550. 00
By balance of uncollected taxes, as follows:				
Realty tax.....			628, 000. 22	
Personal tax.....			295, 660. 89	
				923, 661. 11
Total		3, 583, 621. 20		3, 583, 621. 20

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RECAPITULATION.

To amount collected on account of:

Realty tax.....	\$1, 836, 953. 26
Personal tax.....	150, 058. 37
Penalties.....	128, 923. 20
Miscellaneous items.....	316, 326. 00
Water fund.....	215, 149. 26

To amount of remitted taxes.....	2, 647, 410. 09
To amount uncollected taxes.....	12, 550. 00
	923, 661. 11

PER CONTRA.

By cash deposited in United States Treasury.....	2, 646, 782. 89
By drawback certificates.....	305. 57
By tax-lien certificates.....	321. 63

By amount of remitted taxes.....	2, 647, 410. 09
By amount of uncollected taxes.....	12, 550. 00
	923, 661. 11

3, 583, 621. 20

NOTE.—The following items in the above exhibit were collected through this office for the use of third parties holding the liens representing the taxes:

Special taxes, principal and interest.....	\$13, 443. 51
Washington redemption fund, principal and interest.....	691. 04
General taxes for the years ending June 30, 1872 and 1873, respectively, represented by tax-lien certificates, principal and interest.....	2, 539. 99
Total.....	16, 674. 54

SPECIAL ASSESSMENTS.

The following statement shows the amount received on account of work done under the late board of public works and credited as follows: General account, for work for which no lien certificates were issued; certificate account, for work for which certificates have been issued and are held by the "sinking fund commission;" First National Bank account, for work for which lien certificates have been issued and held by third parties.

General account:

Amount collected.....	\$621. 13	
Interest.....	. 06	
Received in payment:		\$621. 19
Coupons.....		
Interest.....	152. 00	
Cash.....	113. 45	
	355. 74	

Certificate account:

Amount collected.....		621. 19
Interest.....	85, 927. 99	
	60, 269. 95	
Received in payment:		146, 197. 94
Bonds.....		
Interest.....	63, 650. 00	
Coupons.....	48, 744. 01	
Interest.....	4, 544. 00	
Drawbacks.....	3, 303. 21	
Cash.....	571. 42	
	25, 837. 83	

First National Bank account:

Amount collected.....		146, 650. 47
Interest.....	2, 438. 49	
	3, 688. 57	
Received in payment:		6, 127. 06
Bonds.....		
Interest.....	550. 00	
Coupons.....	421. 45	
Interest.....	68. 00	
Cash.....	50. 17	
By sale.....	433. 32	
	4, 604. 12	

Condemnation of land for alleys.....		6, 127. 06
Costs of advertising 1875 and 1888.....		1, 533. 52
Costs.....		385. 16
		106. 51

RECAPITULATION.

Amount received on account of—		
General account		\$621. 19
Certificate account		146, 650. 47
First National Bank account		6, 127. 06
Condemnations		1, 533. 52
Costs of advertising.		385. 16
Costs		106. 51
		<u>155, 423. 91</u>
Sale		4, 604. 12
Bonds		64, 200. 00
Coupons		4, 764. 00
Interest		52, 632. 29
Drawbacks		571. 42
Cash		28, 652. 08
		<u>155, 423. 91</u>

PERMIT FUND.

The following statement shows receipts and disbursements on account of the special permit fund, being deposits made to pay for the cost of labor for the improvement and repair of alleys, sidewalks, sewers, and water service, the material being furnished by the District of Columbia:

Permit sewer work:		
July 1, 1887, balance on hand	\$3, 929. 27	
Receipts	14, 772. 72	
	<u>18, 701. 99</u>	
Total	15, 505. 43	
Disbursements		
		\$3, 196. 56
July 1, 1888, balance on hand		
Permit surface work:		
July 1, 1887, balance on hand	6, 179. 24	
Receipts	16, 684. 49	
	<u>22, 863. 73</u>	
Total	18, 644. 18	
Disbursements		
		4, 219. 55
July 1, 1888, balance on hand		
Permit water-work:		
July 1, 1887, balance on hand	74. 30	
Receipts	429. 59	
	<u>503. 89</u>	
Total	150. 00	
Disbursements		
		353. 89
July 1, 1888, balance on hand		
Plumbers' cuts:		
July 1, 1887, balance on hand	1, 243. 60	
Receipts	3, 438. 26	
	<u>4, 681. 86</u>	
Total	3, 536. 90	
Disbursements		
		1, 144. 96
July 1, 1888, balance on hand		
Amount to credit permit fund July 1, 1888, National Bank of Washington		8, 914. 96
Engineers' license fund—statement showing the receipts and disbursements on account of the examination and licensing engineers:		
Receipts	\$1, 374. 00	
Disbursements	40. 15	
	<u>1, 333. 85</u>	
Balance on hand		
Plumbers' license fund—statement showing receipts on account of the examination and licensing plumbers		231. 00

NOTE.—By order of the Commissioners District of Columbia the amount to the credit of the engineers' license fund in the National Bank of Washington has been withdrawn and deposited to the credit of the general fund in the United States Treasury; and the amount to the credit of the plumbers' license fund has been withdrawn and placed in the hands of the auditor District of Columbia to refund to the depositors.

COMPULSORY PERMIT FUND.

The following statement shows the receipts for material for permit work and the cost of labor for the improvement and repair of alleys and sidewalks, when in the opinion of the Commissioners such a course

is necessary for the public health, safety, or comfort, provided that the costs of such labor shall be charged against and become a lien on the abutting property, and shall be enforced in the same manner as the collection of general taxes, and shall, when so collected, be credited to said appropriation:

Collected under act July 9, 1886	\$1, 280. 91
Collected under act March 3, 1887.....	4, 624. 48
Total.....	5, 905. 39

Miscellaneous deposits. Statement showing the amounts deposited through the collector's office in the United States Treasury to the credit of the respective funds, as per regulation of the Commissioners dated October 30, 1886, No. 28982, as follows: "Ordered, That whereas the collector of taxes is required by law (U. S. Stat. at Large, vol. 21, p. 460) to collect and deposit in the Treasury all revenues of the District," etc.:

Repayments to appropriations:	
Condemnation of land.....	\$1, 715. 41
Advertising, 1880.....	19. 36
Inspecting and proving gas-meters.....	351. 50
Contingent expenses.....	26. 50
Water department.....	124. 96
Transportation of paupers.....	187. 54
Metropolitan police.....	10. 73
Relief of the poor.....	107. 30
Washington Asylum.....	48. 00
Fire department.....	155. 72
River and harbor.....	1, 000. 00
Case District of Columbia v. McBlair.....	54. 25
Improvements and repairs.....	6. 80
General supplies.....	115. 75
Courts, 1887.....	1. 25
Streets.....	2, 533. 20
General expenses.....	20. 75
Judgments, District of Columbia.....	1. 47
Public schools.....	50. 00
G-street wharf.....	100. 00
Miscellaneous expenses.....	32. 60
County maps.....	5. 00
Judicial expenses.....	38. 00
Fuel.....	109. 34
Policemen's fund.....	6, 815. 43
Matthew Wright legacy.....	2, 346. 23
Total.....	850. 44
	10, 012. 10

A comparison of the collections on account of arrears of taxes will show an excess of the present fiscal year over last of \$160,280.76, which is mainly due to the fact that the first five months of the present fiscal year were embraced in the period when arrears of taxes by act of Congress were receivable with 6 per cent. interest in lieu of all penalties—an advantage which tax-payers gladly avail themselves of.

The large unpaid balance of realty tax charged against the collector does not represent the true amount of arrears, inasmuch as it contains taxes on property not now taxable, viz, property owned by the United States and District of Columbia and property exempt by law, such as school, church, and asylum property.

No systematic elimination from the tax ledgers of this class of property has ever been made.

In this connection I beg to call your attention to the paramount importance of this subject and to urge immediate action.

A book or books containing all arrears of taxes should at once be prepared, arranged in convenient form for ready reference, so that tax-payers can, with some degree of certainty and dispatch, obtain information as to the tax status of any lot or subdivision without looking through a vast accumulation of old books and records, where the probability of overlooking some unpaid assessment becomes almost a certainty.

Another important point gained by such an arrangement: It would furnish a convenient, accurate, and necessary reference in the prepara-

tion of collectors' certificates, a need greatly felt. The people who pay the taxes demand and are entitled to proper facilities for ascertaining what is charged against property without unnecessary delay.

I therefore earnestly urge that Congress be asked to make an appropriation of \$5,000 for this purpose and that the work be pushed to completion as rapidly as possible.

The same is true in regard to the tax on personal property. A careful revision would materially decrease the large unpaid balance; indeed, all previous to 1883 is now deemed uncollectible, and no serious attempt has been made to collect the same, owing mainly perhaps to the fact that adequate means to enforce collection has not been given this office.

An appropriation of \$2,000, available in the next fiscal year, has been made in Congress for this purpose, and though the amount is not sufficient to accomplish all we hoped, a determined effort will be made in that direction, with the hope that the result will justify the appropriation.

There is a class of property upon which the taxes have been allowed to accumulate for years, until the amount now equals and in some cases exceeds the value of the property itself.

While the owners or trustees of such property can continue to collect the rents and revenues arising from the same without sharing in any of the expenses or responsibilities of government they will of course continue to do so; but I submit that it is not fair to the great majority of our citizens, who are prompt tax-payers, that a few delinquents should be permitted to enjoy benefits arising from neglect to discharge their duties as good citizens, and I respectfully but earnestly urge that the proper remedy be applied by the prompt and vigorous enforcement of the law governing such cases.

The system of paying taxes in two installments is doubtless the cause of much of the arrears of taxes. Many persons pay the first half of taxes in November, and thinking their taxes have been paid for the entire year, overlook the second half in May, and it thus becomes in arrears. I think a return to the one-payment system would be more satisfactory to the public, and would save much labor and embarrassment.

The first and most important point connected with the subject of taxation is a just and equitable assessment. With that end in view I heartily commend to your favorable consideration the recommendation of the assessor of the District (in his last annual report) for the appointment of a permanent board of assessors.

It is hardly necessary for me to again call your attention to the importance of the enactment of a comprehensive law regulating tax sales. You have recently seen the embarrassment caused by want of consistent laws on this subject, and will doubtless provide against a recurrence of the same.

In submitting my estimate for expenses of collector's office you will see that I have estimated for one coupon clerk at \$1,000 per annum, not at present allowed this office. From the inauguration of the coupon system up to June 1, 1888, a clerk was detailed from the auditor's office to examine and detach coupons in this office. On the above date he was withdrawn, and during the busy months of July and August we were very much embarrassed in consequence. If the coupon system is to be continued a coupon clerk in the collector's office is absolutely necessary.

Respectfully submitted.

E. G. DAVIS,
Collector of Taxes, District of Columbia.

Hon. COMMISSIONERS.

H. Ex. 1, pt. 6—8

F.

REPORT OF THE AUDITOR.

OFFICE OF THE AUDITOR, DISTRICT OF COLUMBIA,
Washington, November 15, 1888.

GENTLEMEN: I have the honor to submit herewith detailed statements (marked respectively A, B, and C) of the receipts and expenditures of the District government for the fiscal year ended June 30, 1888.

A summary of these statements shows:

RECEIPTS.

Balance on hand July 1, 1887	\$1, 019, 865. 92
Received during the year	4, 527, 007. 12
Repaid to appropriations	10, 790. 07
Total receipts	5, 557, 663. 11

EXPENDITURES.

Total expenditures	4, 201, 569. 95
Balance on hand July 1, 1888	1, 356, 093. 16

The above balance is divisible as follows:

General expenses, District of Columbia	\$1, 309, 635. 05
Water fund	12, 012. 92
Contractors' guaranty fund	13, 285. 06
Policemen's relief fund	7, 914. 18
Firemen's relief fund	2, 335. 27
Washington special-tax fund	4, 471. 98
Redemption of tax-lien certificates	4, 145. 63
Washington redemption fund	876. 28
Redemption of assessment certificates	102. 75
Redemption Pennsylvania avenue certificates, act July 8, 1870	117. 05
Redemption Pennsylvania avenue certificates, act July 19, 1876	176. 03
Filling grounds south of the Capitol, under various acts	191. 07
Sales of property in Washington and Georgetown, act March 3, 1881	449. 12
General expenses of the District, act March 3, 1875	292. 31
Surplus fund	87. 50
Fire department, act June 22, 1874	. 49
Bureau of Engraving and Printing and quartermaster's corral: Sowers, act March 3, 1887	. 47
Total as above	1, 356, 093. 16

The business of the office continues to increase, as shown by the fact that 6,213 accounts, inclusive of pay-rolls, were audited, and 30,583 checks drawn, being an excess of 777 audits and 2,630 checks over those of the previous year.

The changes in accounting methods, ordered by the Commissioners during the latter part of the year with special reference to a more thorough and accurate audit of the accounts in the assessment and collection departments, have proved advantageous to the service.

Under the present system the coupons, which are detached from tax-bills at the time of payment and sent to the auditor, are compared by clerks of the auditor's office directly with the collector's cash-books in which the bills are entered, and with the tax-ledgers to which the bills are posted from the cash-books. This method of comparison develops any errors that may chance to occur in the posting from the collector's books of original entry to the ledgers in which the accounts of the taxpayers are kept, and insures an accurate delinquent list, as the books from which the latter is made having thus been previously examined and proved, only the names of those actually delinquent will be listed for publication.

A work of very great importance is the proposed consolidated record of tax arrearages arranged numerically by square and lot, designed, according to the plan adopted by the Commissioners, to show at a glance the total amount of tax due upon any given lot. This record, when completed, will greatly facilitate the preparation of tax certificates, as it will only be necessary then to examine one book instead of a score or more, as is frequently the case at present. The work will be pushed as rapidly as other duties of urgent character will permit.

June 13, 1888, a change was ordered in the method of disbursing the permit funds, requiring the vouchers thereafter to be forwarded through the regular channels and paid in the same manner as accounts under an appropriation. The change is believed to have been in the interest of good administration as the disbursements are now protected by every reasonable safeguard. Much additional labor has thereby been entailed upon this office, but the service has been cheerfully rendered by the clerks whose duties have been thus increased.

Simultaneously with the above an order was issued directing the auditor "to examine and audit all books and accounts" of "employés having charge of the permit funds." This order was executed as far as was practicable, but the work has been suspended for the reason that a portion of the records required in the examination can not be found. As soon as the necessary data is furnished the audit will be completed and final report made to the Commissioners.

Very respectfully,

J. T. PETTY,
Auditor, District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

A.—Statement of cash receipts of the District of Columbia from July 1, 1887, to June 30, 1888.

On what account received.	Detail.	Total.	Aggregate.
GENERAL TAXES AND LICENSES.			
General taxes, excluding penalties.....	\$2, 112, 767. 64		
Licenses	138. 981. 55		
		\$2, 251, 749. 19	
MARKETS.			
Eastern Market rents.....	3, 111. 00		
Western Market rents	5, 847. 80		
Georgetown Market rents.....	1, 247. 59		
Washington Market Company, franchise rental.....	7, 500. 00		
		17, 706. 39	
RENT OF DISTRICT PROPERTY.			
Rent of hay-scales	3, 019. 10		
Rent of wharves, street termini, and buildings	3, 680. 00		
Rent of fish wharves and stalls	507. 06		
		7, 206. 16	
FINES.			
Fines, police court, United States cases	11, 865. 73		
Fines, police court, District of Columbia cases	24, 140. 16		
Fines, criminal court	2, 275. 14		
Fines, appeal cases, through attorney, District of Columbia.....	1, 051. 40		
		39, 333. 23	
MISCELLANEOUS.			
Fees for tax certificates	2, 308. 50		
Permit fees for sewers and gas	3, 551. 00		
Building permits	7, 846. 55		
Dog tax	11, 540. 41		
Pound fees	391. 75		
Material furnished	330. 97		
Sale of school-desks and horses	148. 50		
Labor and sale of products Reform School	1, 571. 37		
Board of R. Murphy, Washington Asylum.....	12. 00		
Fees for inspection of gas and meters	352. 00		
Surplus from sale of contractors' guaranty bonds	610. 47		
Advertising	7, 736. 90		
Auctioneers' returns	66. 68		
Sale of lots 8 and 9, block 3, Howard University.....	480. 00		
Judgment of United States circuit court of Alexandria, Va., Hay vs. Alexandria and Washington Railroad Company.....	62, 818. 31		
Use of pumping-engine and engineer.....	30. 00		
Use of steam-roller	60. 00		
Plumbers' account, certificate No. 91.....	50. 00		
Special tax erroneously collected on certificate No. 9444.....	166. 17		
Sale of certain copies of District reports.....	3. 00		
Cost of removal of coal from sidewalk	1. 00		
		100, 085. 58	
Total taxes and revenue (cash) for 1888.....			\$2, 416, 080. 55
SPECIAL AND TRUST FUNDS.			
Water taxes and rents	215, 149. 26		
Washington redemption fund	691. 04		
Special-tax fund	13, 443. 51		
Redemption of assessment certificates	433. 32		
Redemption of tax-lien certificates.....	2, 539. 99		
Bureau of Engraving and Printing and quartermaster's corral sewers.....	2, 443. 30		

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 115

A.—Statement of cash receipts of the District of Columbia, etc.—Continued.

On what account received.	Detail.	Total.	Aggregate.
SPECIAL AND TRUST FUNDS—continued.			
Surplus fund.....	\$82. 00		
Guaranty fund (act June 11, 1878).....	53, 149. 39		
Policemen's relief fund (act February 25, 1885).....	6, 850. 27		
Firemen's relief fund (act February 25, 1885).....	1, 245. 13		
		\$296, 027. 21	
Total special and trust funds			\$296, 027. 21
UNITED STATES APPROPRIATIONS.			
Act March 3, 1888, general expenses District of Columbia, 1888	1, 793, 194. 48		
Act February 1, 1888, deficiencies	21, 704. 88		
		1, 814, 899. 36	
Total United States appropriations			1, 814, 899. 36
Grand total of receipts and appropriations			4, 527, 007. 1

B.—Detailed statement of expenditures of the government of the District of Columbia from July 1, 1887, to June 30, 1888.

Appropriations.	Detail.	Total.	Aggregate.
IMPROVEMENTS AND REPAIRS.			
Repairs to concrete pavements, 1888.....	\$75, 610. 87		
Repairs to concrete pavements, 1887.....	3, 798. 14		
Total.....		\$79, 409. 01	
Materials for permit work, 1888.....	67, 664. 30		
Materials for permit work, 1887.....	735. 22		
Total.....		68, 399. 52	
Improvement of streets, etc., Georgetown, 1888.....	43, 677. 80		
Improvement of streets, etc., northwest, 1888.....	138, 369. 01		
Improvement of streets, etc., southwest, 1888.....	49, 954. 18		
Improvement of streets, etc., southeast, 1888.....	63, 810. 10		
Improvement of streets, etc., northeast, 1888.....	49, 678. 37		
Work on sundry avenues and streets and replacement of pavements, 1887.....	8, 461. 16		
Total.....		353, 950. 62	
Filling streets below grade, 1888.....		2, 196. 15	
Continuation of surveys of the District with reference to the future extension of streets and avenues, 1888.....		3, 996. 27	
Sewers, 1887.....		8, 476. 01	
Aggregate			\$516, 427. 58
BRIDGES.			
Ordinary care, 1888.....	1, 316. 65		
Ordinary care, 1887.....	1, 312. 00		
Total.....		2, 628. 65	
Construction and repairs, 1888.....	4, 935. 97		
Repairing and maintaining, 1887.....	331. 59		
Total.....		5, 267. 56	
Salaries of bridge-keepers, 1887.....		54. 40	
Aggregate.....			7, 950. 61
CHARITIES AND CORRECTIONS.			
Washington Asylum:			
Salaries of employes, 1888.....	13, 041. 65		
Salaries of employes, 1887.....	6. 93		
Total		13, 048. 58	
Contingent expenses, 1888.....	36, 477. 78		
Contingent expenses, 1887.....	2, 340. 63		
Total.....		38, 818. 41	
Aggregate			51, 866. 99

B.—Detailed statement of expenditures, etc.—Continued.

Appropriations.	Detail.	Total.	Aggregate.
CHARITIES AND CORRECTIONS—continued.			
Transportation of paupers and prisoners:			
For fiscal year 1888.....		\$3,490.06	
For fiscal year 1887.....		99.05	
Aggregate.....			\$3,589.11
Relief of the poor:			
For fiscal year 1888.....		14,053.48	
For fiscal year 1887.....		608.95	
Aggregate.....			14,662.43
Reform School:			
Support for 1888.....		37,476.00	
Building, 1888.....		9,700.00	
Building, 1887.....		14,000.00	
Aggregate.....			61,176.00
Industrial Home School:			
For fiscal year 1888.....		10,000.00	
For fiscal year 1887.....		1,700.00	
Aggregate.....			11,700.00
St. John's Church Orphanage Association:			
Maintenance, fiscal year 1888.....		1,500.00	
Building, fiscal year 1888.....		6,000.00	
Aggregate.....			7,500.00
Government Hospital for the Insane, 1888.....			56,349.00
Georgetown Almshouse, 1887.....			147.00
Columbia Hospital for Women and Lying-in Asylum, 1888.....			15,000.00
Women's Christian Association, 1888.....			3,000.00
National Association for Destitute Colored Women and Children, 1888.....			7,000.00
Children's Hospital, 1888.....			5,000.00
St. Ann's Infant Asylum, 1888.....			6,000.00
Washington Hospital for Foundlings, 1888.....			7,000.00
National Homeopathic Hospital Association, 1888.....			3,000.00
Building, St. Rose Industrial School, 1888.....			5,000.00
Building, House of the Good Shepherd, 1888.....			3,000.00
Building, Association for Works of Mercy, 1888.....			3,600.00
SALARIES AND CONTINGENT EXPENSES OFFICES.			
Executive office:			
Pay of employes, 1888.....	\$19,944.00		
Contingent expenses, 1888.....	2,618.01		
Contingent expenses, 1887.....	8.25		
Contingent expenses, 1886.....	113.73		
Total.....		22,683.99	
Auditor's office:			
Pay of employes, 1888.....	16,200.00		
Contingent expenses, 1888.....	289.01		
Contingent expenses, 1887.....	18.98		
Contingent expenses, 1886.....	4.12		
Total.....		16,512.11	
Markets:			
Pay of market-masters, 1888.....	3,300.00		
Contingent expenses, 1888.....	800.00		
Total.....		4,100.00	
Collector's office:			
Pay of employes, 1888.....	14,800.00		
Contingent expenses, 1888.....	656.78		
Exhibit of outstanding taxes in arrears, 1888.....	1,000.00		
Total.....		16,456.78	
Assessor's office:			
Pay of employes, 1888.....	15,300.00		
Contingent expenses, 1888.....	997.31		
Contingent expenses, 1887.....	21.75		
Contingent expenses, 1886.....	189.80		
Total.....		16,508.86	
Attorney's office:			
Pay of employes, 1888.....	8,600.00		
Contingent expenses, 1888.....	198.18		
Rent of office, 1888.....	100.00		
Total.....		8,898.18	

B.—Detailed statement of expenditures, etc.—Continued.

Appropriations.	Detail.	Total.	Aggregate.
SALARIES AND CONTINGENT EXPENSES OFFICES—continued.			
Coroner's office:			
Pay of coroner, 1888	\$1,800.00		
Contingent expenses, 1888	610.35		
Contingent expenses, 1887	57.00		
Contingent expenses, 1886	2.00		
Care of morgue, 1888	88.00		
Total		\$2,557.35	
Engineer's office:			
Pay of employes, 1888	55,161.55		
Contingent expenses, 1888	4,996.10		
Contingent expenses, 1887	451.46		
Total		60,609.11	
Inspector of gas and meters' office:			
Maintaining and keeping in good order and repair the laboratory and apparatus, 1888	724.21		
Same for fiscal year 1887	15.11		
Same for fiscal year 1886	1.25		
Total		740.57	
Sinking fund office:			
Pay of employes, 1888	2,400.00		
Contingent expenses, 1888	144.15		
Total		2,544.15	
Fuel, ice, gas, repairs, and miscellaneous items of District offices, 1887		47.20	
Aggregate			\$151,658.30
STREETS.			
Sprinkling, sweeping, and cleaning streets, avenues, and alleys, 1888	60,528.87		
Sprinkling, sweeping, and cleaning streets, avenues, and alleys, 1887	3,805.82		
Sprinkling, sweeping, and cleaning streets, avenues, and alleys, 1886	22.20		
Total		64,356.89	
Current repairs to streets, avenues, and alleys, 1888	28,286.66		
Current repairs to streets, avenues, and alleys, 1887	250.65		
Total		28,537.31	
Current repairs to county roads and suburban streets, 1888	22,551.85		
Current repairs to county roads and suburban streets, 1887	8,418.72		
Total		30,970.57	
Constructing county roads and suburban streets, 1888	46,747.85		
Opening and extending suburban streets, 1887	4,664.58		
Total		51,412.43	
Parking commission, 1888	17,106.80		
Parking commission, 1887	1,337.57		
Total		18,444.37	
Lighting street lamps, 1888	107,798.21		
Lighting street lamps, 1887	9,111.72		
Lighting street lamps, 1886	144.00		
Total		117,053.93	
Purchase and repairs to pumps, 1888	2,798.94		
Purchase and repairs to pumps, 1887	36.51		
Total		2,835.45	
Cleaning and repairing sewers and basins, 1888	25,861.66		
Cleaning and repairing sewers and basins, 1887	79.88		
Cleaning and repairing lateral sewers and basins, 1886	17.70		
Cleaning tidal sewers, 1886	29.10		
Replacing obstructed sewers, 1888	6,297.64		
Main and pipe sewers, 1888	49,352.19		
Construction of suburban sewers, 1888	27,831.21		
Total		109,469.38	
Harbor and river front, 1888		3,493.24	
Aggregate			426,573.57

118 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

B.—Detailed statement of expenditures, etc.—Continued.

Appropriations.	Detail.	Total.	Aggregate.
METROPOLITAN POLICE.			
Pay of officers and members, 1888		\$328, 952. 31	
Rent of headquarters and substation at Uniontown, 1888.....		1, 200. 00	
Fuel, 1888.....		1, 217. 95	
Repairs to police station houses, 1888.....		1, 941. 61	
Contingent expenses, 1888.....	\$10, 203. 00		
Contingent expenses, 1887.....	352. 33		
Contingent expenses, 1886.....	14. 56		
Total.....		10, 569. 89	
Police signal and telephone system in second or fifth pre- cinct, 1888.....		4, 400. 00	
Aggregate			\$348, 281. 76
FIRE DEPARTMENT.			
Pay of officers and members, 1888		85, 345. 10	
Repairs to engine houses, 1888.....	1, 996. 45		
Repairs to engine houses, 1887.....	6. 37		
Repairs to engine houses, 1885.....	12. 25		
Total.....		2, 015. 07	
Repairs to apparatus and new appliances, 1888.....	2, 411. 06		
Repairs to apparatus and new appliances, 1887.....	2, 226. 00		
Repairs to apparatus and new appliances, 1886.....	58. 08		
Total.....		4, 695. 14	
Fuel, 1888	1, 504. 36		
Fuel, 1887	97. 14		
Fuel, 1885	39. 60		
Total.....		1, 641. 10	
Forage, 1888	3, 812. 78		
Forage, 1887.....	110. 36		
Total.....		3, 923. 14	
Contingent expenses, 1888.....	5, 983. 72		
Contingent expenses, 1887.....	872. 74		
Total.....		6, 856. 46	
Purchase of hose, 1888.....		2, 650. 00	
Purchase of horses, 1888.....		2, 000. 00	
Aggregate			109, 126. 01
TELEGRAPH AND TELEPHONE SERVICE.			
Pay of employes, 1888		8, 840. 00	
General expenses, 1888	5, 696. 02		
General expenses, 1887	1, 427. 48		
Total.....		7, 123. 50	
Putting wires under ground, 1888		7, 476. 79	
Aggregate			23, 440. 29
COURTS.			
Pay of employes, 1888		9, 324. 00	
Marshal's fees, 1888	1, 400. 00		
Marshal's fees, 1887	77. 50		
Total.....		1, 477. 50	
Contingent expenses, 1888.....	2, 999. 42		
Contingent expenses, 1887.....	208. 54		
Total.....		3, 207. 96	
Judicial expenses, 1888.....	1, 658. 23		
Judicial expenses, 1887.....	179. 65		
Judicial expenses, 1886.....	3. 55		
Total.....		1, 841. 43	
Defending suits in claims against the District, 1888.....		1, 000. 00	
Aggregate			16, 850. 89
PUBLIC SCHOOLS.			
Pay of officers, teachers, and janitors, 1888.....		482, 845. 07	
Rent of school-rooms, 1888.....		10, 215. 44	

B.—Detailed statement of expenditures, etc.—Continued.

Appropriations.	Detail.	Total.	Aggregate.
Repairs and improvements to school buildings and grounds, 1888	\$20,000.00		
Repairs and improvements to school buildings and grounds, 1887	347.85		
Total		\$20,347.85	
Fuel, 1888	19,665.90		
Fuel, 1887	166.43		
Total		19,832.33	
Contingent expenses, 1888	19,658.23		
Contingent expenses, 1887	54.94		
Total		19,713.17	
Sanitary improvements in old buildings, 1888		9,998.61	
Purposes of industrial instruction, 1888		4,932.45	
Contingent expenses of night schools, 1888		280.05	
Aggregate			\$568,164.97
BUILDINGS AND GROUNDS, PUBLIC SCHOOLS.			
Addition to Columbia Road school building, 1888		1,327.95	
Addition to Hamilton Road school building, 1888		121.22	
Building adjoining the Wallach school, 1888		19,517.00	
Building adjoining the Sumner school, 1888		20,930.28	
Building in fourth division, 1888		14,685.68	
Building in second division, 1888		20,750.77	
Building in the seventh or eighth division, 1888		24,910.76	
Building in the third division, 1888		20,940.96	
Purchase of site and erection of building in second division, 1888		20,741.40	
Purchase of site for building in second division, 1888		1.50	
Purchase of site for building in the seventh or eighth division, 1888		1,429.75	
Purchase of site for building in third division, 1888		1.50	
Purchase of sites and erection of buildings, 1887		7,705.87	
Furniture for new buildings, 1888		8,000.00	
Iron fire-escapes and combined stand-pipes for school buildings, 1888		999.33	
Aggregate			162,063.97
MISCELLANEOUS EXPENSES.			
General advertising, 1888	2,197.49		
General advertising, 1887	2,366.31		
General advertising, 1885	25.75		
Total		4,589.55	
Printing, checks, damages, fuel, ice, gas, and other necessary expenses of District offices, 1888	6,694.05		
Books for register of wills, printing, checks, damages, fuel, ice, gas, and other expenses, 1887	6.33		
Books and file-holders for register of wills, 1888	299.92		
Complete the assorting, briefing, and filing the records and papers of the office of the register of wills, 1888	1,200.00		
Total		8,200.30	
Rent of District offices, 1888		3,600.00	
Aggregate			16,389.85
HEALTH DEPARTMENT.			
Pay of employes, 1888	3,965.36	23,580.00	
Contingent expenses, 1888	8.76		
Contingent expenses, 1887			
Total		3,974.12	
Collection of garbage, 1888		15,000.00	
Aggregate			42,554.12
SUNDRY APPROPRIATIONS.			
Interest and sinking fund on the bonded debt, 1888		1,213,947.97	
Contingent expenses District of Columbia, 1888	763.30		
Contingent expenses District of Columbia, 1887	1,885.46		
Total		2,648.76	

B.—Detailed statement of expenditures, etc.—Continued.

Appropriations.	Detail.	Total.	Aggregate.
SUNDRY APPROPRIATIONS—continued.			
Bureau of Engraving and Printing and Quartermaster's corral sewers.....		\$2, 442. 83	
Completion of sewerage system.....		2, 686. 96	
Widow of J. H. Ramsdell, late register of wills, District of Columbia.....		325. 00	
Washington Aqueduct, 1888.....		20, 000. 00	
Payment of judgments.....		8, 305. 90	
Refunding erroneously paid taxes, etc.....		7, 888. 20	
Aggregate.....			\$1, 258, 245. 62
WATER DEPARTMENT.			
Pay of employes, 1888.....		9, 536. 00	
Contingent expenses, 1888.....	\$2, 364. 66		
Contingent expenses, 1887.....	2. 98		
Total.....		2, 367. 64	
General expenses, pipe distribution, public hydrants, fire-plugs, materials, and labor, 1888.....	75, 616. 18		
General expenses, as above, for 1887.....	1, 046. 43		
General expenses, as above, for 1886.....	239. 85		
Total.....		76, 902. 46	
Interest and sinking fund on water-stock bonds, 1888.....	44, 610. 00		
Interest and sinking fund on account for increasing the water-supply, 1888.....	76, 655. 69		
Total.....		121, 265. 69	
Two two-and-one-half-million-gallon pumping-engines and boilers, etc., 1888.....		6, 216. 21	
Refunding erroneously-paid water rents, etc.....		1, 324. 87	
Aggregate.....			217, 612. 87
SPECIAL AND TRUST FUNDS.			
Contractors' guaranty fund, act June 11, 1878.....		47, 995. 83	
Washington special-tax fund.....		13, 418. 56	
Redemption of tax-lien certificates.....		1, 511. 47	
Redemption of assessment certificates.....		664. 00	
Washington redemption fund.....		672. 62	
Redemption of Pennsylvania avenue paving scrip, act July 8, 1870.....		626. 21	
Policemen's relief fund.....		5, 635. 32	
Firemen's relief fund.....		1, 115. 00	
Aggregate.....			71, 639. 01
Grand aggregate of expenditures during fiscal year.....			4, 201, 569. 95
The above expenditures may be classified as follows:			
From United States appropriations:			
For support of the government of the District of Columbia.....		1, 949, 650. 04	
Bureau of Engraving and Printing and quartermaster's corral sewers.....		2, 442. 83	
Completion of sewerage system.....		2, 686. 96	
Total.....			1, 954, 779. 83
From revenues of the District of Columbia.....			1, 957, 538. 24
From water fund of the District of Columbia.....			217, 612. 87
From special and trust funds.....			71, 639. 01
			4, 201, 569. 95

C.—Statement of expenditures of the government of the District of Columbia for the fiscal year ending June 30, 1888, showing the general appropriations and fiscal years to which the expenditures are applicable.

Appropriations.	Fiscal year ending June 30, 1885.	Fiscal year ending June 30, 1886.	Fiscal year ending June 30, 1887.	Fiscal year ending June 30, 1888.	Special and trust funds.	Aggregate.
Improvements and repairs.....			\$21, 470. 53	\$494, 957. 05		\$516, 427. 58
Bridges.....			1, 697. 99	6, 252. 62		7, 950. 61
Washington Asylum.....			2, 347. 56	49, 519. 43		51, 866. 99
Transportation of paupers and prisoners.....			99. 05	3, 490. 06		3, 589. 11
Relief of the poor.....			608. 95	14, 053. 48		14, 662. 43
Government Hospital for the Insane.....				56, 349. 00		56, 349. 00
Georgetown Almshouse.....			147. 00			147. 00
Industrial Home School.....			1, 700. 00	10, 000. 00		11, 700. 00
Reform School.....				37, 476. 00		37, 476. 00
Buildings, Reform School.....			14, 000. 00	9, 700. 00		23, 700. 00
Columbia Hospital for Women and Lying-in Asylum.....				15, 000. 00		15, 000. 00
Women's Christian Association.....				3, 000. 00		3, 000. 00
National Association for Destitute Colored Women and Children.....				7, 000. 00		7, 000. 00
Children's Hospital.....				5, 000. 00		5, 000. 00
St. Ann's Infant Asylum.....				6, 000. 00		6, 000. 00
Church Orphanage Association.....				1, 500. 00		1, 500. 00
Building, Church Orphanage Association.....				6, 000. 00		6, 000. 00
Washington Hospital for Foundlings.....				7, 000. 00		7, 000. 00
Building, St. Rose Industrial School.....				5, 000. 00		5, 000. 00
Building, House of the Good Shepherd.....				3, 000. 00		3, 000. 00
Building, Association for Works of Mercy.....				3, 600. 00		3, 600. 00
National Homeopathic Hospital Association.....				3, 000. 00		3, 000. 00
Salaries and contingent expenses, offices.....		\$310. 90	619. 75	150, 727. 65		151, 658. 30
Streets.....		213. 00	27, 705. 45	398, 655. 12		426, 573. 57
Metropolitan police.....		14. 56	352. 33	347, 914. 87		348, 281. 76
Fire department.....	\$51. 85	58. 08	3, 312. 61	105, 703. 47		109, 126. 01
Telegraph and telephone service.....			1, 427. 48	22, 012. 81		23, 440. 29
Courts.....		3. 55	465. 69	16, 381. 65		16, 850. 89
Public schools.....			569. 22	567, 595. 75		568, 164. 97
Buildings and grounds, public schools.....			7, 705. 87	154, 358. 10		162, 063. 97
Miscellaneous expenses.....	25. 75		2, 372. 64	13, 991. 46		16, 389. 85
Health department.....			8. 76	42, 545. 36		42, 554. 12
Interest and sinking fund.....				1, 213, 947. 97		1, 213, 947. 97
Contingent expenses, District of Columbia.....			1, 885. 46	763. 30		2, 648. 76
Bureau of Engraving and Printing and Quartermaster's corral sewers.....				2, 442. 83		2, 442. 83
Payment of judgment.....			8, 305. 90			8, 305. 90
Completion of sewerage system.....	2, 686. 96					2, 686. 96
Widow of J. H. Ramsdell, late register of wills.....	325. 00					325. 00
Washington Aqueduct.....				20, 000. 00		20, 000. 00
Water department.....		239. 85	1, 049. 41	216, 323. 61		217, 612. 87
Refunding erroneously paid taxes, etc.....					\$7, 888. 20	7, 888. 20
Contractors' guaranty fund.....					47, 995. 83	47, 995. 83
Washington special-tax fund.....					13, 418. 56	13, 418. 56
Redemption of tax-lien certificates.....					1, 511. 47	1, 511. 47
Redemption of assessment certificates.....					664. 00	664. 00
Redemption of Pennsylvania avenue scrip.....					626. 21	626. 21
Policemen's relief fund.....					5, 635. 32	5, 635. 32
Firemen's relief fund.....					1, 115. 00	1, 115. 00
Washington redemption fund.....					672. 62	672. 62
Total.....	3, 089. 56	839. 94	97, 851. 65	4, 020, 261. 59	79, 527. 21	4, 201, 569. 95

G.

THE SINKING FUND.

TREASURY OF THE UNITED STATES,
Washington, September 3, 1888.

GENTLEMEN: I have the honor to transmit herewith an estimate of the appropriations required for the service of the fiscal year ending June 30, 1890, by the commissioner of the sinking fund of the District of Columbia on account of interest and sinking fund on the funded debt of the District, exclusive of the water bonds, and for the sinking-fund office.

I also submit, as required by act of Congress of July 5, 1884, an estimate of the amount required to refund within the time fixed by law the amount appropriated for increasing the water supply of the city of Washington, and to pay interest on the sums advanced to the District of Columbia by the United States for that purpose.

The estimate for clerical service in the sinking-fund office is the same as last year. The justice and expediency of paying adequate salaries to those who perform the responsible duties of the sinking-fund office was acknowledged by several members of the Committee on Appropriations in the House of Representatives, and the Treasurer was assured that the reductions from the estimates of last year were inadvertently made, and without knowledge of the facts. He therefore trusts that you will again unite with him in recommending the appropriation asked for.

Respectfully, yours,

JAMES W. HYATT,
*Treasurer United States,
Ex-officio Commissioner Sinking Fund, District of Columbia.*

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA,
Washington, D. C.

Statement of the funded indebtedness of the District of Columbia and late corporation of Washington.

Description of bonds.	Act authorizing issue.	Date of maturity.	Interest.				Amount registered.	Amount coupon.	Total.
			Rate.	Coin or currency.	Payable.	When due.			
Of the District of Columbia:			<i>Per ct.</i>						
Permanent improvement	Assembly, July 10 and December 16, 1871.	July 1, 1891	6	Coin	Semi-annually.	Jan. 1 and July 1	.....	\$3, 031, 600	\$3 031, 600
Water stock	Assembly, July 20, 1871.	Oct. 1, 1901	7	Currency	do	do	.....	360, 000	360, 000
Market stock	Assembly, August 23, 1871, and June 19, 1872.	July 26, 1892	7	do	do	do	\$100, 000	44, 900	144, 900
Permanent improvement	Assembly, June 23 and 25, 1873.	July 1, 1891	7	do	do	do	.....	515, 600	515, 600
Water stock	Assembly, June 26, 1873.	July 1, 1903	7	do	do	do	.....	15, 000	15, 000
Fifty-year funding	Congress, June 20, 1874, February 20 and March 3, 1875.	Aug. 1, 1924	3 ⁶⁵ ₁₀₀	do	do	Feb. 1 and Aug. 1	11, 836, 000	2, 197, 600	14, 033, 600
Twenty-year funding	Congress, June 10, 1879, and June 8, 1880.	July 1, 1899	5	do	do	Jan. 1 and July 1	300, 000	620, 400	920, 400
Of the late corporation of Washington:									
Three-year (Emery)	Congress, July 7, 1870.	July 30, 1873	7 ¹⁶	do	do	Interest ceased	.....	100	100
Twenty-year funding	Congress, May 8, 1872.	July 1, 1892	6	Coin	do	Jan. 1 and July 1	.....	956, 150	956, 150
Thirty-year funding	Assembly, District of Columbia, June 20, 1872.	Nov. 1, 1902	6	do	do	May 1 and Nov. 1	.....	604, 100	604, 100
							12, 236, 000	8, 345, 450	20, 581, 450

Stocks and bonds outstanding on which interest has ceased, there being funds for the payment of the principal and interest deposited in the United States Treasury.

Corporation of Washington, ten-year bonds	\$150. 00
Corporation of Washington, 5 per cent. general stock	1, 340. 01
Corporation of Washington, 6 per cent. general stock	3, 480. 17
	<u>4, 970. 18</u>
Debt on July 1, 1878	22, 106, 650. 00
Increase by issue of three-sixty-five bonds	893, 500. 00
	<u>23, 000, 150. 00</u>
Decrease by operation of sinking fund and otherwise	2, 418, 700. 00
	<u>20, 581, 450. 00</u>
Net reduction of debt	1, 525, 200. 00

Interest charge July 1, 1878	\$1, 015, 759. 12
Interest charge June 30, 1888	906, 242. 40
Net reduction of interest charge	<u>\$109, 516. 72</u>
Total issue of three-sixty-five bonds to date (issue being limited by law to \$15, 000, 000)	14, 636, 750. 00
Amount retired	<u>603, 150. 00</u>
Total outstanding as above	14, 033, 600. 00

124 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Estimate of appropriations required for the service of the fiscal year ending June 30, 1890, by the commissioner of the sinking fund, District of Columbia.

Detailed objects of expenditure, and explanations.	Estimated amount which will be required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the current fiscal year ending June 30, 1889.
DISTRICT OF COLUMBIA.			
For interest and sinking fund on the funded debt, exclusive of the water bonds (July 11, 1878; July 18, 1888, vol. 20, pp. 104, 105, secs. 3, 4)		\$1, 213, 947. 97	\$1, 213, 947. 97
For sinking-fund office:			
One clerk (same acts)	\$2, 000. 00		
One clerk (same acts)	1, 000. 00		
Contingent expenses, including books, stationery, printing, and miscellaneous items (same acts)	300. 00		
		3, 300. 00	2, 700. 00
Under the head of "Water department," to pay the United States the fifth installment of one-half of the amount appropriated to increase the water supply of the city of Washington, as follows (July 15, 1882; July 18, 1888, vol. 22, p. 170, sec. 3):			
Act of July 15, 1882....	\$1, 485, 279. 30		
Act of July 7, 1884.....	87, 500. 00		
Act of March 3, 1885....	87, 500. 00		
Act of August 4, 1886..	555, 000. 00		
Act of March 30, 1888..	355, 000. 00		
	2, 570, 279. 30, one-half of which		
is	\$1, 285, 139. 65		
Repayments to be deducted:			
First installment, fiscal year 1886	\$35, 169. 10		
Second installment, fiscal year 1887	34, 598. 98		
Third installment, fiscal year 1888	49, 654. 27		
Fourth installment, fiscal year 1889	52, 386. 96		
	171, 809. 31		
Due United States, in twenty-one annual installments	1, 113, 330. 34	53, 015. 73	53, 015. 73
			52, 386. 96
To pay interest at 3 per cent. on one-half of the amount advanced by the United States for increasing the water supply of the city of Washington, or so much thereof as may be required (same acts)	33, 399. 91	33, 399. 91	34, 575. 39

H.

REPORTS OF CHARITABLE AND REFORMATORY INSTITUTIONS.

H 1.

THE WASHINGTON ASYLUM.

WASHINGTON ASYLUM,
August 31, 1888.

GENTLEMEN: I herewith submit the following report of the operations of the Washington Asylum for the fiscal year ending June 30, 1888, together with estimates for its support for the fiscal year ending June 30, 1890, accompanied by such suggestions as to its future management as the necessities of the situation seem to demand.

The daily average number of persons supported in the institution during the past year was 456, divided among its different departments as follows: Work-house, 168; almshouse, 171; hospital, 82; employés, 35.

During the year ending June 30, 1887, the daily average number of persons in the work-house was 188, and the number received 2,369, while for the year ending June 30, 1888, the daily average 168, and the number committed 2,975, thus showing that while 606 more persons were received the daily average was 20 less, while the number of inmates in the almshouse and hospital have increased in a nearly corresponding ratio.

The number admitted to almshouse was 315.

I attribute the decrease in the average number of prisoners in the work-house mainly to the shorter terms generally imposed in cases of vagrancy. These were generally punished by sentence of thirty or sixty days, the full term of ninety days being imposed much less frequently than formerly. This would seem to indicate that the imposition of short terms has had a marked tendency to increase the number of arrests and consequent commitments to the work-house.

Many of these people are known as "rounders," or "repeaters," and spend the greater portion of their lives in prison. They should receive the full extent of the law, and be compelled to serve their term or leave the District. The facility with which persons charged with vagrancy are able to procure bond, which is often forfeited, also tends to increase the number of commitments to the work-house.

There were 1,631 different persons received in the male work-house during the year, of whom 1,274 were committed only once, 206 twice, 81 three times, 37 four times, 12 five times, 16 six times, 1 seven times, 2 eight times, and 2 twelve times. Of the above number 456 colored and 86 white persons were under twenty-one years of age.

Of the 417 different persons sent to the female work-house during the year 293 were committed only once, 56 twice, 34 three times, 13 four times, 7 five times, 7 six times, 4 seven times, 1 eight times, 1 nine times, and 1 fourteen times. Of this number 146 colored and 2 white persons were under twenty years of age.

The male prisoners have been divided into several gangs, the largest of which has been employed in grading streets in the eastern section of the city, using the tram-way and cars. During the year this gang performed 9,185 days' work for men with 547 days' work of horses, in addition to 419 days' labor during the winter in cleaning snow and ice from the street-crossings and the vicinity of the school buildings and markets east of the Capitol.

A picked gang of from 16 to 25 men have been engaged in abating nuisances, cleaning alleys, gutters, etc., in various sections of the city, and have performed a large amount of necessary work for which there was no other means available. The time made by this gang amounted to 4,955 days' work for men, and 686 days for officers.

A small gang has also been employed in cleaning garbage and refuse material from the neighborhood of the Center Market, during which time 330 wagon-loads were collected and removed to the farm, where it was composted and used as manure. The time made by this gang amounted to 1,442 days' work for the men, and 190 days for officers. The average number employed on the farm and in the shops was about 20, making 6,200 days' labor.

Amount and estimated value of farm products raised during the year and used for the benefit of the institution and inmates.

Articles.	Quantity.	Amount.	Articles.	Quantity.	Amount.
Hay.....tons..	15	\$300.00	Milk.....gallons..	5,475	\$1,095.00
Straw.....do....	10	180.00	Eggs.....dozen..	760	162.20
Rye.....bushels..	175	110.00	Chickens.....	75	25.00
Corn.....do....	100	50.00	Celery.....	800	20.00
Potatoes.....do....	100	60.00	Onions.....bushels..	20	25.00
Cabbage.....	8,000	320.00	Grapes.....		15.00
Tomatoes.....bushels..	200	100.00	Berries.....		20.00
Beets.....do....	260	100.00			
Carrots.....do..	300	150.00			
Pork.....pounds..	10,404	624.24	Total.....		3,356.44

The labor employed in grading and cleaning the streets would, if paid for at the lowest current rate of wages, have cost the District government some \$16,000. This work was absolutely necessary, and the amount which it would have cost should stand as an item of credit to the asylum and as an offset to the expense of its maintenance. The work done by inmates and prisoners on the farm and in the shops, which, on the same basis, would have cost over \$6,000, reducing by that much the amount required to be appropriated for the support of the institution, should also be placed to the credit of the asylum, thus showing it to be, in a great measure, a self-supporting institution.

With the exception of some necessary repairs to the roof and gutters of the male work-house, the building is in good condition. I have had the iron bunks of the north wing moved out some 4 inches from the wall, as they were originally so close that it was impossible to clean behind them, and they became infested with chinchies. The work of moving them was no easy job, as they were clamped to the walls, and were very heavy, weighing some 1,400 pounds. Mr. Ratherdate, the black-

smith of the institution, however, accomplished the work satisfactorily in eleven days.

The conduct of the inmates during the past year has been, with slight exceptions, very good, no serious infractions of the rules having occurred during that time. A resort to disciplinary measures has been very seldom required, the few cases in which these were necessary being almost exclusively among the younger prisoners.

The numerous class of untaught and untrained youth now roaming the streets, living upon the proceeds of the labor of others, demands serious thought. Numbers of them find their way here, and while it is but just that they should be treated with all possible humanity and kindness, yet it is essential, both for their own future good and the welfare of the community, that they should be subjected to a firm and judicious discipline, and kept employed as much as possible. These disciplinary features seem to be peculiarly the attributes of a work-house, and carrying them out strictly is the only means at our disposal for preventing, or at least delaying, the further contamination of that part of the juvenile criminal class which finds its way into the institution. The means at our command are not such as to go far towards reforming them. Confined together, as they necessarily are, and exposed to the deteriorating influences of older and more experienced criminals than themselves, they are too apt to learn much evil, mingled with very little good.

The house has sheltered the usual number of small boys (nearly all colored), ranging from seven to fourteen years of age, who are too small to perform efficient work and too mischievous to be left alone by themselves. They are a great trial to the officers, and an annoyance to the older prisoners. I have had them in school during regular hours, and the teacher has done her best to instruct them, but there seems to be small hope of permanent improvement as long as they are constantly returned to the work-house. I therefore earnestly hope that some arrangement may be made by which they can be sent to the Reform School, as the association with hardened criminals, whose tales of crime they eagerly listen to and whose examples they are soon anxious to imitate, renders their reformation almost impossible.

These facts might be illustrated by more than one living example selected from among the present inmates of the work-house. Commencing at an early age, perhaps eight or ten years, by running away from home and picking up a precarious subsistence by begging and petty depredations, sleeping in lurking places not readily accessible to the police, arrested and committed to the work-house term after term with intervals of a few days or, at most, weeks between, until they arrive at maturity hardened, chronic, and confirmed work-house cases.

The building occupied by the female prisoners is in good condition, clean, comfortable, and well-suited for the purpose for which it is used.

There has been a marked change for the better in the conduct of this class of prisoners during the past year, many of them working industriously during their entire terms without giving cause for censure, and but for a few of the younger ones who apparently desire to gain notoriety as leaders their conduct would have been excellent.

Number of persons committed to the work-house for a period of ninety days for the year ending June 30, 1888	280
Number of persons committed for a period of ninety days for the year ending June 30, 1887	640

The labor of the female prisoners consists of laundry work, making and repairing clothing and bedding, general house-work, cooking, and

in assisting in the care of the old and infirm inmates of the almshouse.

The following is a list of the principal articles of clothing, etc., made during the year :

Work-house coats	104	Bed-ticks	137
Work-house pants	178	Pillow-ticks	87
Work-house vests	76	Pillow-cases	354
Poor-house coats	103	Sheets	399
Poor-house pants	329	Towels	371
Poor-house vests	112	Chemise	278
Work-house shirts	562	Night-gowns	56
Poor-house shirts	339	Under-bodies	40
Poor-house drawers	51	Basques	10
Work-house dresses	135	Aprons	54
Work-house gowns	154	Petticoats	49
Poor-house dresses	90	Poor-house gowns	14

In addition to the above, there was a large number of articles of clothing, etc., repaired.

There were also 1,056 pairs of shoes, 87 pieces of harness, 4 collars, and 25 halters repaired at the male work-house.

The almshouse has been very much crowded for a great portion of the year, especially the quarters devoted to the male inmates, and for this reason I recommend that \$1,000 be asked for from Congress to put in habitable condition the unused magazine building south of the female work-house.

This building is amply large (36 by 100 feet) to meet for several years the probable demands for increased space. It is constructed of brick, in the best and most substantial manner, and is in good condition, excepting part of the flooring, which will require renewal. Windows and an additional door would have to be inserted. At present there are no windows, chimney, water, gas, or plastering in the building, but the small outlay asked for will complete the necessary work and convert a useless structure into a much-needed ward.

The almshouse has been repaired and painted to as great an extent as the sum which could be spared from the contingent fund permitted, and is in fair condition, except the plumbing and closets, which are of insufficient capacity, defective, and badly constructed, and should be replaced by others of more approved style; as buildings crowded with inmates, as this generally is, require the most constant care to keep them in good sanitary condition. Gas will be introduced this fall, as a small sum has been appropriated for that purpose. This will be an improvement on the present mode of lighting the building with lamps, rendering it more secure from fire. A fire-escape will also be erected, thereby reducing the danger of a catastrophe from this source.

The inmates seem to be comfortable, healthy, and as contented as possible under the circumstances. I hear of no complaints, and believe that none can be justly made. The food is good in quality and plentiful in quantity, and consists of fresh and corned beef, bacon, fresh pork in season, fish, potatoes, onions, oatmeal, rice, wheat and corn bread, tea, coffee, butter, beets, tomatoes, and cabbage, with milk, eggs, and crackers for the young children and the old and infirm; also such fruit and melons as can be raised on the place are divided among the inmates.

The rule of excluding persons from the almshouse who had previously served out sentences in the work-house has not been strictly regarded; several persons coming under this category have been admitted to the almshouse without, so far as I am aware, any injurious effects arising therefrom. Great discretion should, however, be used in resorting to

this practice, and its exercise confined to the cases of the aged and infirm.

On November 28, 1887, about 10 o'clock p. m., the blacksmith shop, a frame structure of two rooms, situated near the barn, was discovered to be on fire. An alarm was immediately turned in, and every possible means at hand availed of to extinguish the flames, but, owing to the strong wind that was blowing at the time and the headway the fire had gained before discovery, the building and contents were completely destroyed. The fire evidently caught from a defective flue that was used for heating water. Chief Parris and a portion of the fire department were promptly on hand, and rendered valuable service in saving adjoining property. Loss of building and contents, including three car bodies which were burned, was between \$500 and 600.

A new brick blacksmith shop, with a room adjoining, to be used as a slaughter-house during the winter, has been built on the same site, and refurnished with tools, etc. The expense of reconstruction and providing new tools was paid out of the contingent fund, the old building not being insured.

On the night of November 29 last a bay mare mule was stolen from the old stable. The police department was promptly notified, and officers of the institution sent in search, but after several days of unsuccessful effort they were obliged to abandon the hunt. The party suspected of the theft is now in confinement, and as soon as his term of sentence expires will be prosecuted. By this means it is hoped that the mule (which was a valuable one) may be recovered and the thief duly punished.

A fine bull, two years old, which was raised on the place, died June 17 of inflammation of the bowels, after unsuccessful treatment by the District veterinary surgeon.

The chestnut mare Fanny, for many years in the service of the District, died April 7, of old age.

The stock on the farm at present consists of 11 milch cows, 4 heifer calves, 1 bull calf, 13 horses, 1 mare recently turned over from the patrol service as unfit for work, and 106 hogs and shoats.

A substantial picket fence 1,776 feet in length was erected around the potter's field early in the summer, also 408 feet of the same on the south side of the lane leading to the river, and 80 feet of fencing across the river end of this lane. All needed repairs to fences and buildings necessary to keep them in useful condition have been done, but no extensive improvements could be made from the fact that Congress failed to make necessary provisions for the same. Such repairs as have been made have been paid for from the contingent fund.

A small hot-house, which has long been much needed, is now in course of construction and will, when completed, form a very useful as well as ornamental adjunct to the grounds.

There were 530 coffins issued during the year on order from the health officer and coroner, and 68 used at this institution. During the same time there were 546 burials in the potter's field.

The expense connected with the burial of the dead of the indigent poor of the District, such as the purchase of lumber for coffins, making them, the pay of the dead-wagon driver, his board, and repairs to the dead-wagon and harness, expense of shoeing, and forage for the animal belonging to the wagon are properly chargeable to the health department and should be paid from the appropriation for that department. This service has no proper connection with the affairs of this institution, and if paid for from its fund the institution should be given due credit

therefor. The expense of the same is estimated as follows: Pay of driver, \$314; forage, \$96; horse-shoeing, \$10; repairs to wagon and harness, \$30; lumber and hardware, \$150; labor, \$450; total, \$1,050.

The institution is open to visitors during business hours and all reputable citizens of the District and strangers visiting the city are made welcome and will receive courteous attention from its officers. Its steady improvement and present condition are such that we take pleasure in escorting visitors through its departments and grounds, and explaining our purposes and methods to all persons interested in the welfare of the classes who are liable to become wards of the District.

To the ladies and gentlemen of the various Christian denominations, who have devotedly given their time to aid in the religious services held each Sabbath in the different departments of the asylum, I desire to express my sincere thanks, and to assure them that their visits are most welcome to the inmates as evidenced by the interest they manifest, and a pleasure to the officers in general.

Since my last report we have received several visits from officials of similar institutions in other cities, who, without exception, have expressed their approval of the management, and have been gratified at finding so many comforts afforded to the inmates of the almshouse and at the good order and quiet preserved in the work-house.

In estimating for the expense of the institution for the next fiscal year, I have included one additional overseer and watchman. No material increase to the force has been made for several years past, and as the different departments of the institution have become isolated from each other and placed in separate buildings, it is absolutely necessary that the guards should be increased and appropriated for instead of becoming a charge on the contingent fund as is now the case.

I have also asked that the contingent fund be increased \$1,000, in order to keep pace with the constant and steady increase in the number of inmates to be cared for; and \$2,500 for the erection of a much-needed ward for the hospital department.

For a detailed account of the operations of the hospital department I respectfully refer you to the accompanying report of Doctor Chew, visiting physician to the asylum, and hope that his recommendations and suggestions for the improvement of the same may receive your favorable consideration.

A condensed statement of the cost of maintenance, as also of the nativities, admissions, discharges, and deaths of inmates, is submitted in tabular form for convenient perusal.

STATISTICAL TABLES.

WORK-HOUSE.

Number in workhouse July 1, 1887	137
Number received	2,975
Number discharged	3,112
Number eloped	2,922
Number died	31
	3
	2,956
Total number remaining in work-house June 30, 1888	156

COLOR AND SEX.

White males.....	896
White females	230
Colored males	1,384
Colored females.....	465
	2,975
Daily average number in work-house	168

CHARGES.

Vagrancy	1,151	Profanity and fast driving.....	1
Disorderly	1,079	Having a filthy privy-box	1
Profanity	428	Violating police regulations and	
Carrying concealed weapons	70	profanity	1
Indecent exposure.....	60	Firing a gun in street	1
Trespass on park	53	Refusing to pay hack-hire.....	1
Destroying private property	20	Riding tricycle without light	1
Cruelty to animals.....	19	Obstructing pavement.....	1
Fast driving.....	10	Sounding horn in street.....	1
Disorderly and concealed weapons	9	Disorderly and destroying private	
Disorderly and profanity	6	property	1
Disturbing church	6	Defacing property.....	1
Throwing stones.....	5	Vagrancy and concealed weapons	1
Violating police regulations.....	5	Firing a pistol in lot.....	1
Unlicensed bar.....	4	Building a fire in alley.....	1
Setting off fire-works.....	4	Defacing public property	1
Concealed weapons and profanity.	4	Profanity and destroying private	
Disorderly and indecent exposure.	3	property	1
Playing ball in street.....	3	Selling liquors to minors and keep-	
Dropping dirt from cart	2	ing bar open on Sunday.....	1
Failing to maintain distance be-		Firing pistol in street.....	1
tween carts.....	2	Eloped and recaptured.....	12
Violating hack law.....	2		
Depositing vegetable matter in		Total	2,975
street	1		

NATIVITY OF INMATES.

Native.

District of Columbia.....	1,124
Virginia	678
Maryland	435
New York.....	103
Pennsylvania	87
Massachusetts.....	28
Ohio	24
North Carolina.....	20
Rhode Island.....	17
Illinois.....	14
Indiana	10
South Carolina.....	9
Kentucky	9
Connecticut.....	8
Maine.....	7
Mississippi	7
Delaware.....	6
New Jersey.....	6
Georgia	5
Florida	5
Louisiana	4
Alabama	3
West Virginia.....	2
Missouri	2
Arkansas.....	2
Texas	2
Iowa.....	1
Vermont	1

Native—Continued.

California	1
Michigan	1
Wisconsin.....	1
Tennessee	1
Unknown	4
	2,627

Foreign.

Ireland.....	220
Germany.....	53
England	20
France.....	9
Switzerland	8
Scotland	7
Canada	6
Sweden	4
West Indies	2
Austria	2
Denmark.....	2
Turkey	1
Cuba	1
Italy.....	1
Hungary.....	1
Belgium	1
Russia	1
Total	2,975

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ALMSHOUSE.

From July 1, 1887, to June 30, 1888.

Number in almshouse July 1, 1887	144
Number received	315
	459
Number discharged	303
	156
Total number remaining June 30, 1888	171
Daily average number of inmates for the year	171

COLOR AND SEX.

White males	196
White females	43
Colored males	45
Colored females	31
	315

NATIVITY OF INMATES.

Native:			Native:		
District of Columbia	68		Tennessee		1
Virginia	46		Foreign:		
Maryland	33		Ireland		70
New York	10		Germany		29
Pennsylvania	8		England		14
Georgia	3		France		4
Massachusetts	3		Scotland		3
Maine	2		Sweden		2
New Hampshire	2		Belgium		1
Indiana	2		Arabia		1
North Carolina	2		Hungary		1
Ohio	2		Unknown		5
Delaware	1				
Louisiana	1		Total		315
South Carolina	1				

Statement of the daily average number of inmates in the work-house, almshouse, and hospital per month for the year ending June 30, 1888.

Month.	Work-house.			Almshouse.			Hospital.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1887.									
July	61	87	148	79	70	149	38	36	74
August	66	103	169	87	73	160	45	37	82
September	78	113	191	81	68	149	41	47	88
October	71	91	162	87	69	156	35	43	78
November	72	80	152	96	69	165	39	41	80
December	76	101	177	104	70	174	37	40	77
1888.									
January	78	81	159	112	79	191	39	42	81
February	76	91	167	116	85	201	40	48	88
March	75	102	177	114	85	199	41	56	97
April	65	115	180	103	82	185	37	49	86
May	62	103	165	93	73	166	40	45	85
June	58	111	169	86	69	155	31	43	74

TOTAL AVERAGE PER MONTH.

	White.	Colored.	Total.
Work-house	70	98	168
Almshouse	97	74	171
Hospital	38	44	82
Total	205	216	421

The appropriation for the support of the institution for the past year was as follows:

Contingent expenses	\$40,000.00	
Expended	39,293.28	\$706.72
Salaries	13,305.00	
Expended	13,040.83	264.17
Unexpended balance		970.89
Cost per capita:		
For attendance		30.97
For subsistence		93.34
Total cost each		124.31

I have the honor to submit the following estimates for the maintenance of the Asylum for the fiscal year ending June 30, 1890:

Contingent expenses, including improvements and repairs, provisions, fuel, forage, lumber, shoes, clothing, dry goods, hardware, medicines, repairs to tools, cars, tracks, steam heating and cooking apparatus, painting, and other necessary items and services	\$41,000
The erection of a lying-in ward for the hospital department	2,500
Converting the magazine building next south of the female work-house into a ward for the inmates of the almshouse	1,000
One intendant	1,200
One matron	600
One visiting physician	1,080
One resident physician	480
One clerk	600
One baker	420
One overseer	800
Six overseers, at \$600 each	3,600
One engineer	600
One assistant engineer	350
One second assistant engineer	300
Six watchmen, at \$355 each	2,190
One keeper at the female work-house	300
One keeper at the female work-house	180
One teacher	300
One blacksmith	300
One hostler and driver	240
Two cooks, at \$120 each	240
Three cooks, at \$60 each	180
One nurse	180
Four nurses, at \$60 each	240
	58,880

Very respectfully,

H. W. STOUTENBURGH,
Intendant, Washington Asylum.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Detailed account of receipts and expenditures of Washington Asylum from July 1, 1887, to June 30, 1888.

SALARIES.	
W. H. Stoutenburgh, intendant	\$1,200.00
S. F. Stoutenburgh, matron	600.00
Thomas I. Chew, visiting physician	1,080.00
C. M. Rawlings, resident physician	160.40
C. K. Koonen, resident physician	319.60

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D. Tindall, clerk	\$600.00
R. Nolan, baker	399.15
F. B. Graff, overseer	800.00
H. C. Addison, overseer	600.00
D. Stewart, overseer	600.00
G. Martin, overseer	600.00
G. W. McMahon, overseer	600.00
R. A. Milstead, overseer	600.00
J. J. McGuigan, engineer	600.00
J. D. C. Stoutenburgh, assistant engineer	300.00
A. B. Clark, assistant engineer	185.08
F. McEntee, watchman	365.00
J. D. O'Connor, watchman	365.00
W. Arnold, watchman	365.00
S. E. Arnold, watchman	365.00
H. Davey, watchman	365.00
R. F. Ratherdale, blacksmith	240.00
Christine Hilfinger, teacher	300.00
Frances Ferguson, keeper female work-house	300.00
Emily Watkins, keeper female work-house	180.00
Edward Hardy, ambulance driver	10.10
Patrick Noonan, ambulance driver	10.10
Henry Henson, hostler	120.00
Harriet Dotson, cook	120.00
Ada Tyng, cook	60.00
Elizabeth Brown, cook	60.00
Annie Bailey	6.84
Josephine Johnson, cook	16.32
Mary Smith, cook	85.52
Hattie Bailey, cook	27.72
Charles Schwank, cook	15.00
George Smith, nurse	36.24
James Garnett, nurse	60.00
Kate Bishop, nurse	60.00
Mary E. Jackson, nurse	60.00
Louise McKenzie, nurse	49.95
Charles Robinson, nurse	14.67
James Ferguson, nurse	129.09
Mary Shugrue, nurse	10.05
Total	13,040.83

MISCELLANEOUS.

1887.		
July.	W. M. Galt & Co., flour and forage	208.75
	C. C. Carroll, fresh and corned meat	167.34
	J. B. & Bryan & Bro., groceries	434.48
	James L. Barbour, groceries and forage	109.93
	Scheller & Stevens, drugs	108.68
	J. M. Wheatley, coal	509.95
	Willet & Libbey, lumber	57.00
	Meyers & Loving, forage	25.20
	Jackson & Co., groceries	10.50
	Jackson & Co., market bill	24.70
	Great Falls Ice Company, ice	44.61
	W. O. Berry, repairs to roofs, etc.	55.00
	Washington Gas Light Company, gas	12.76
	F. H. Smith, insurance	38.44
Aug.	J. B. Bryan, groceries	392.44
	Thomas O. Varnell, fresh meat	595.44
	Frank Hume, groceries	543.06
	James L. Barbour, groceries and forage	114.38
	R. C. Hewett, forage	78.73
	Scheller & Stevens, drugs	89.97
	E. G. Wheeler, hardware	55.93
	George J. Johnson, dry goods	731.33
	B. Rich & Son, shoes	54.90
	Robert Cohen, shoes	42.72
	Great Falls Ice Company, ice	37.53
	Jackson & Co., groceries	19.40

1887.

Aug.	Jackson & Co., market bill.....	\$25.00
	H. I. Gregory, tinware	32.50
	Meyers & Loving, forage	46.90
	W. J. C. Dulaney, stationery	18.65
	Cole & Green, plumbing, material and labor.....	90.00
	William Lee White, cabbage plants	29.70
	G. W. Fitts, disinfectant.....	12.50
	Henry Lyles, sand	6.00
	William L. King, sole leather	27.68
	H. W. Blunt, lime and cement.....	10.25
	R. Harris & Co., two clocks.....	3.00
	R. Leitch & Son, sewer pipe	11.88
	Washington Gas-Light Company, gas	14.14
July.	E. C. Gatchell, carpenter.....	60.00
	L. F. Dorn, laborer	33.00
	J. S. Stettinius, watchman.....	31.25
	Thomas Reardon, tailor.....	15.00
	J. Stewart, watchman.....	12.50
	H. Heynich, herdsman.....	8.25
Aug.	E. C. Gatchell, carpenter	81.00
	L. F. Dorn, laborer	40.50
	J. S. Stettinius, watchman.....	33.75
	Thomas Reardon, tailor.....	15.00
	J. Stewart, watchman.....	12.50
	H. Heynich, herdsman.....	8.91
	John A. Baker, 1 bushel hair.....	.50
	W. M. Galt & Co., flour and forage.....	276.35
Sept.	W. M. Galt & Co., flour and forage.....	321.88
	B. Rich, shoes.....	65.70
	E. G. Wheeler, hardware.....	46.57
	Scheller & Stevens, drugs	44.01
	R. C. Hewett, forage	36.56
	G. W. Fitts, disinfectant.....	13.50
	Edward Evans, gas-burners	6.00
	Mrs. George Hallman, shoe-strings.....	.25
	John Miller, coal.....	1,382.50
	J. B. Bryan & Bro., groceries.....	433.94
	Thomas O. Varnell, fresh meat	404.24
	George J. Johnson, dry goods.....	170.71
	James L. Barbour, groceries and forage.....	99.40
	Meyers & Loving, forage.....	46.90
	J. C. Ergood, groceries	34.75
	Great Falls Ice Company, ice.....	31.65
	H. I. Gregory, stove and tinware.....	10.75
	Washington Gas-Light Company, gas.....	19.77
	E. C. Gatchell, carpenter	72.75
	L. F. Dorn, laborer	5.25
	J. S. Stettinius, watchman.....	32.50
	T. Reardon, tailor.....	15.00
	E. Wallingsford, laborer.....	24.00
	J. Stewart, watchman.....	12.50
	H. Heynich, herdsman	8.58
Oct.	Frank Hume, groceries, ham, and bacon.....	607.69
	George J. Johnson, dry goods	464.30
	W. M. Galt, flour and forage	369.10
	H. I. Gregory, repairs to stoves, stand-pipe for boiler, etc	162.30
	B. Rich & Son, shoes	54.90
	R. C. Hewett, forage.....	37.78
	Browning & Middleton, groceries.....	69.45
	W. J. C. Dulaney, stationery.....	4.40
	J. B. Bryan, groceries.....	450.26
	Scheller & Stevens, drugs.....	186.44
	Robert Cohen, shoes	113.64
	E. G. Wheeler, hardware	102.06
	James L. Barbour, groceries and forage	101.43
	Henry McShane & Co., plumbing material.....	32.04
	Jackson & Co., market bill.....	25.00
	J. C. Ergood, groceries.....	13.42
	W. J. C. Dulaney, stationery	13.25

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1887.

Oct.	W. L. King, sole leather	\$10.25
	H. W. Blunt, lime	8.50
	Jackson & Co., potatoes	6.75
	J. W. Boteler & Son, dishes, etc	46.61
	John A. Baker, seed, etc	33.50
	Jackson & Co., market bill	25.00
	Jackson & Co., groceries	19.85
	Do	51.25
	Francis Miller, paints, oil, glass, brushes, etc	160.65
	Pettit & Dripps, plumbing material	4.82
	R. Harris & Co., 4 clocks	6.00
	Great Falls Ice Company, ice	33.00
	F. P. May, hardware	28.75
	Meyers & Loving, forage	49.40
	J. B. Kendell, wagon material	10.58
Nov.	James L. Barbour, groceries and forage	118.51
	J. B. Bryan, groceries	415.66
	W. M. Galt & Co., flour and forage	390.02
	Thomas O. Varnell, fresh meat	390.60
	George J. Johnson, dry goods	329.12
	Lansburgh Bros., dry goods	348.93
	Robert Cohen, shoes	42.72
	Meyers & Loving, forage	56.80
	George A. Shehan, lumber	66.28
	Scheller & Stevens, drugs	118.24
	B. Rich & Sons, shoes	54.90
	E. G. Wheeler, hardware	40.61
	Jackson & Co., groceries	28.05
	Great Falls Ice Company, ice	24.45
	W. J. C. Dulaney, stationery	5.95
	John A. Baker, grass seed	4.00
Oct.	E. C. Gatchell, carpenter	78.00
	D. T. Johnson, watchman	27.50
	E. Wallingsford, laborer	26.00
	Thomas Reardon, tailor	15.00
	J. Stewart, watchman	12.50
	H. Heynich, herdsman	8.58
Nov.	Thomas O. Varnell, fresh meat	406.72
	E. C. Gatchell, carpenter	72.00
	C. M. Prather, watchman	31.25
	E. Wallingsford, laborer	26.00
	Thomas Reardon, tailor	15.00
	J. Stewart, watchman	12.50
	H. Heynich, herdsman	8.25
	Tschiffely & Evans, combs	6.50
	Robert Cohen, shoes	16.25
	Dunlap & Clark, blanks and printing	6.27
	A. Saks & Co., flannel drawers	51.70
	Jackson & Co., market bill	25.00
	H. W. Blunt, lime	4.25
	Monroe & Co., bricks	105.00
	Henry Lyles, 10 cubic yards sand	12.00
	G. W. Fitts, disinfectant	12.50
	H. W. Blunt, lime	8.50
	Washington Gas-Light Company, gas	89.28
Dec.	W. M. Galt & Co., flour and forage	288.90
	Frank Hume, groceries and smoked meat	476.34
	Meyers & Loving, forage	89.98
	R. C. Hewett, forage	78.82
	Scheller & Stevens, drugs	75.18
	Robert Cohen, shoes	42.72
	W. L. King & Bro., leather	27.54
	H. S. Johnson, saddlery	27.00
	John Miller, coal	49.00
	E. G. Wheeler, hardware	18.50
	Great Falls Ice Company, ice	21.78
	Jackson & Co., groceries	14.75
	E. G. Wheeler, hardware	105.01
	Thomas O. Varnell, fresh meat	407.22

1887.

Dec.	J. B. Bryan, groceries.....	\$459.43
	H. I. Gregory, tinware and stoves.....	94.40
	J. W. Boteler, crockery.....	53.08
	J. C. Ergood, groceries.....	36.75
	D. McCarthy & Son, dry goods.....	138.75
	Jackson & Co., groceries.....	77.96
	Jackson & Co., market bill.....	25.00
	Cannon & Chandler, poultry.....	107.75
	J. B. Kendell, hardware.....	14.55
	W. J. C. Dulaney, stationery.....	5.93
	E. C. Gatchell, carpenter.....	78.00
	C. M. Prather, watchman.....	33.75
	E. Wallingsford, laborer.....	27.00
	T. Reardon, tailor.....	15.00
	J. Stewart, watchman.....	12.50
	H. Heynich, herdsman.....	8.91
	T. G. Miller, extra service.....	8.00
	W. B. Moses, furniture.....	173.40
	Thomas T. Keene, corned meat.....	264.08
	John A. Baker, garden seed.....	.25
	Tschiffely & Evans, combs.....	4.50
	W. O. Berry, tin roofing.....	95.65
	M. W. Beveridge, glass ware.....	4.32
	John McDermott, repairs.....	10.75

1888.

Jan.	Thomas O. Varnell, fresh meat.....	435.49
	George J. Johnson, dry goods.....	34.02
	William M. Galt, flour and forage.....	329.96
	James L. Barbour, groceries and forage.....	154.87
	J. B. Bryan, groceries.....	422.69
	Meyers & Loving, forage.....	88.50
	Browning & Middleton, groceries.....	96.23
	Great Falls Ice Company, ice.....	19.02
	Henry McShane & Co., fittings.....	94.32
	J. B. Kendell, wagon material.....	55.47
	Francis Miller, paints.....	14.13
	Henry Troemner, scales.....	19.00
	C. Auerbach, sewing machine.....	17.00
	S. Patrick, soap stock.....	10.00
	C. H. Osborn, horseshoeing.....	1.25
	William E. Stockett & Co., stationery.....	4.75
	E. C. Gatchell, carpenter.....	69.00
	F. McEntee, bricklayer.....	40.00
	C. M. Prather, watchman.....	32.50
	E. Wallingsford, laborer.....	26.00
	T. Reardon, tailor.....	15.00
	J. Stewart, watchman.....	12.50
	H. Heynich, herdsman.....	8.58
	George J. Johnson, dry goods.....	94.18
	William Ballautyne & Son, stationery.....	17.70
	Scheller & Stevens, drugs.....	47.92
	Jackson & Co., groceries.....	9.25
	E. G. Wheeler, hardware.....	28.20
	Washington Gas-Light Company, December, gas.....	54.02
	Washington Gas-Light Company, January, gas.....	53.39
Feb.	W. M. Galt & Co., groceries, forage.....	298.57
	Robert Cohen, shoes.....	74.76
	George J. Johnson, dry goods.....	59.98
	R. C. Hewett, forage.....	38.22
	Scheller & Stevens, drugs.....	70.22
	Thomas O. Varnell, fresh meat.....	388.37
	Frank Hume, groceries.....	458.13
	J. B. Bryan, groceries.....	445.93
	Meyers & Loving, forage.....	86.12
	James L. Barbour, groceries, forage.....	222.57
	E. G. Wheeler, hardware.....	42.31
	E. G. Wheeler, hardware.....	7.50
	Jackson & Co., groceries.....	40.50
	Jackson & Co., market bill.....	24.99

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1888.

Feb.	J. M. Wheatley, coal	\$127.25
	J. C. Ergood & Co., groceries	15.21
	William B. Moses & Son, linoleum	12.20
	H. Hempler, spectacles	3.00
	Auerbach & Bro., hats	12.00
	Mrs. George Holtman, shoestrings	.75
	R. C. Hewett, forage	40.80
	W. J. C. Dulaney, stationery	6.12
	Willet & Libby, lumber	16.50
	W. Cogan & Co., gauge glasses	4.00
	Dunlap & Clark, printing	.12
	E. C. Gatchell, carpenter	69.00
	C. M. Prather, watchman	30.00
	C. F. Burch, laborer	30.00
	E. Wallingsford, laborer	24.00
	T. Reardon, tailor	15.00
	H. Heynich, herdsman	7.92
Mar.	John Miller, coal	231.80
	George J. Johnson, dry goods	169.24
	Scheller & Stevens, drugs	78.50
	H. I. Gregory, tinware	78.25
	Lutz Bros., harness	39.50
	R. C. Hewett, forage	39.29
	E. G. Wheeler, hardware	34.75
	Jackson & Co., market bill	24.70
	W. J. C. Dulaney, stationery	33.76
	Henry McShane, plumbing supplies	30.76
	W. M. Galt & Co., flour and forage	354.90
	J. B. Bryan & Bro., groceries	472.97
	James L. Barbour, groceries and forage	120.85
	Meyers & Loving, forage	86.40
	H. I. Gregory, stove and tinware	17.75
	H. W. Blunt, lime and cement	10.56
	William Ballantyne & Son, stationery	6.50
	Tschiffely & Evans, combs	4.50
	E. C. Gatchell, carpenter	81.00
	C. M. Prather, watchman	33.75
	C. F. Burch, laborer	33.75
	E. Wallingsford, laborer	27.00
	T. Reardon, tailor	15.00
	H. Heynich, herdsman	8.91
	C. Auerbach, machine needles	1.00
	Saks & Co., clothing	57.60
	H. W. Turpin, disinfectant	12.50
	Lewis Barr, sewing machine	40.00
Apr.	B. Rich & Son, shoes	373.20
	George A. Shehan, lumber	287.22
	George J. Johnson, dry goods	76.62
	Browning & Middleton, groceries	64.62
	W. L. King & Bro., leather	26.60
	W. Wood & Co., medical periodicals	23.00
	P. S. Liesinring, incandescent gas burners	4.50
	W. M. Galt & Co., flour and forage	361.34
	Francis Miller, paints, oils, etc	174.03
	Jackson & Co., groceries	141.83
	Jackson & Co., market bill	25.00
	Scheller & Stevens, drugs	80.74
	Meyers & Loving, forage	79.00
	G. F. Dunlap, fertilizer	63.63
	R. C. Hewett, forage	39.00
	Great Falls Ice Company, ice	19.62
	Do	20.94
	J. C. Ergood, groceries	12.57
	Thos. O. Varnell, fresh meat	447.89
	James L. Barbour, groceries and forage	83.07
	Henry Lyles, sand	6.00
	Thomas O. Varnell, fresh meat	417.88
	John Miller, coal	326.00
	W. J. C. Dulaney, stationery	27.50

1888.

Apr.	W. L. King, leather.....	\$27.00
	H. McShane & Co., plumbing supplies.....	11.52
	E. G. Wheeler, hardware.....	74.65
	Robert Cohen, shoes.....	72.04
	Judd & Detweiler, printing.....	6.00
	Washington Gas-Light Company, gas.....	43.38
	Do.....	45.63
	Do.....	36.14
	E. C. Gatchell, carpenter.....	72.00
	C. M. Prather, watchman.....	31.25
	A. H. S. Burche, laborer.....	31.25
	E. Wallingsford, laborer.....	25.00
	T. Reardon, tailor.....	15.00
	H. Heynich, herdsman.....	10.33
	J. B. Bryan, groceries.....	456.42
	Jackson & Co., groceries.....	44.88
	Jackson & Co., market bill.....	25.00
	Great Falls Ice Company, ice.....	24.21
May.	Frank Hume, groceries and smoked meat.....	811.75
	W. M. Galt & Co., flour and forage.....	387.21
	John Miller, coal.....	130.00
	George J. Johnson, dry goods.....	80.84
	R. C. Hewett, forage.....	39.00
	G. T. Dunlap, fertilizer.....	39.00
	H. I. Gregory, tinware.....	15.40
	Tschiffely & Evans, combs.....	7.50
	E. F. Street, insect fluid.....	3.00
	E. G. Wheeler, hardware.....	81.80
	Thomas T. Keene, corned beef.....	162.69
	Munroe & Co., bricks.....	46.50
	Henry McShane & Co., plumbing supplies.....	5.89
	W. B. Moses & Son, furniture.....	4.25
	R. Harris & Co., clocks and repairs.....	8.00
	Lansburgh & Bro., dry goods.....	692.88
	J. B. Bryan, groceries.....	461.10
	John A. Baker, seed, etc.....	102.15
	J. W. Boteler & Son, crockery ware.....	63.36
	Judd & Detweiler, printing.....	36.00
	E. C. Gatchell, carpenter.....	78.00
	C. M. Prather, watchman.....	33.75
	A. H. S. Burche, laborer.....	33.75
	E. Wallingsford, laborer.....	27.00
	B. W. Hunter, laborer.....	22.50
	T. Reardon, tailor.....	15.00
	H. Heynich, herdsman.....	13.23
	J. C. Ergood, groceries.....	11.24
	Thomas O. Varnell, fresh meat.....	412.67
	Scheller & Stevens, drugs.....	88.24
	James L. Barbour, forage and groceries.....	85.31
	Great Falls Ice Company, ice.....	38.79
	Washington Gas-Light Company, gas.....	27.63
	John Cooksey, plastering.....	35.00
	Jackson & Co., groceries.....	15.90
	J. C. Ergood, groceries.....	15.21
	F. P. May, coffee mill.....	7.50
	W. J. C. Dulaney, stationery.....	6.00
	Myers & Loving, forage.....	5.00
June.	Frank Hume, groceries and smoked m at.....	366.48
	George A. Shehan, lumber.....	213.94
	B. Rich & Son, shoes.....	120.60
	Auerbach & Bro., clothing and hats.....	103.50
	George J. Johnson, dry goods.....	71.08
	H. I. Gregory, tinware.....	37.50
	Scheller & Stevens, drugs.....	66.03
	R. C. Hewett, forage.....	39.00
	W. M. Galt & Co., flour and forage.....	395.23
	Willet & Libby, lumber.....	234.17
	H. McShane, plumbing supplies.....	42.93
	Jackson & Co., market bill.....	25.00

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1888.

June.	Dunlap & Clark, printing.....	\$4.41
	J. M. Wheatley, coal.....	50.90
	George A. Shehan, lumber.....	38.14
	Jackson & Co., groceries.....	25.60
	W. M. Galt & Co., forage.....	4.25
	M. W. Beveridge, glassware.....	.79
	E. C. Gatchell, carpenter.....	75.00
	B. W. Hunter, laborer.....	34.50
	W. O. Wetzel, painter.....	50.00
	C. M. Prather, watchman.....	32.50
	A. H. S. Burche, laborer.....	32.50
	E. Wallingsford, laborer.....	26.00
	T. Reardon, tailor.....	15.00
	H. Henrich, herdsman.....	12.74
	J. B. Bryan & Bro., groceries.....	547.18
	Thomas O. Varnell, fresh meat.....	402.25
	Thomas T. Keene, corned meat.....	148.10
	James L. Barbour & Son., groceries and forage.....	119.28
	Lansburgh Bro., dry goods.....	118.94
	Francis Miller, paint and oils.....	96.78
	Louis Myers, mattresses and pillows.....	87.50
	J. S. Topham, harness.....	56.25
	Great Falls Ice Company, ice.....	42.36
	M. G. Copeland & Co., awnings.....	33.00
	Browning & Middleton, groceries.....	42.22
	James B. Henderson, papering rooms.....	18.00
	John A. Baker, hardware.....	15.00
	H. W. Turpin, disinfectant.....	12.50
	William Ballantyne, stationery.....	5.40
	Meyers & Loving, forage.....	5.00
	Lutz & Bro., satchel and whip.....	4.25
	Washington Gas Light Company, gas.....	18.01
	R. C. Hewett, forage.....	3.90
	Robert Cohen, shoes.....	99.88
	J. W. Boteler, crockery.....	43.43
	John McDermott, repairs.....	32.00
	Jackson & Co., market bill.....	25.00
	Melville Lindsay, rubber goods.....	1.56
	Hartford Woven Wire Mattress Company, bedstead.....	146.25
	E. G. Wheeler, hardware.....	63.57
	James L. Barbour, groceries and forage.....	11.34
	Charles Fischer, syringe.....	4.00
	The Walsbach Incandescent Gas Light Company, gas burners.....	12.75
	Tschiffely & Evans, disinfectant.....	27.61
	Wash. B. Williams, chairs.....	25.00
	W. J. C. Dulaney, stationery.....	17.98
	Mrs. George Holtman, shoe-strings.....	1.00
	Robert Leitch, plumber supplies.....	17.37
	Frank Hume, groceries.....	34.45
	J. B. Kendall, wagon material.....	7.80
	W. B. Moses, matting, etc.....	31.60
	Henry McShane, plumbing, etc.....	27.97
	Outstanding bills estimated.....	39,176.07
		117.21
		39,293.28

WASHINGTON ASYLUM HOSPITAL, 1888.

SIR: I have the honor to submit the following annual report of the Washington Asylum Hospital for the year ended June 30, 1888:

Number admitted from July 1, 1887, to June 30, 1888.....	452
Number of births.....	30
Remaining in hospital June 30, 1887.....	73
Total.....	
	555

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 141

Number discharged from July 1, 1887, to June 30, 1888.....	410
Number of deaths.....	65
Remaining in hospital June 30, 1888.....	80
Total.....	555

CLASSIFICATION.

White males	167
White females	77
Total white.....	244
Colored males.....	199
Colored females.....	112
Total colored	311

NATIVITY.

District of Columbia.....	120	West Virginia.....	1
Virginia	117	South Carolina.....	1
Maryland	115	Ireland	46
Pennsylvania	27	Germany	15
New York.....	15	England	4
Massachusetts.....	19	Turkey	2
New Jersey	7	Denmark.....	1
Ohio	7	France.....	1
North Carolina.....	5	Switzerland.....	5
Indiana	4	Arabia	2
Georgia	3		525
Illinois.....	2	Births.....	30
Texas	2		
Maine.....	2		
Wisconsin	1	Total	555
California.....	1		

CAUSES OF DEATH.

Senile debility.....	17	Alcoholism	1
Congenital debility.....	5	Puerperal eclampsia.....	1
Epilepsy	5	Convulsions.....	1
Enterocolitis	4	Asthma	1
Paralysis.....	4	Pneumonia.....	1
Tuberculosis	3	Syphilis.....	1
Typhoid fever.....	3	Gangrene	1
Cancer of uterus.....	2	Chronic parenchymatous nephritis..	1
Chronic diarrhea.....	2	Pyæmia.....	1
Cancer of superior maxilla.....	2	Valvular disease of heart.....	1
Phthisis pulmonalis	2	Asphyxia	1
Scrofulosis	1	Gastro enteritis	1
Tumor of larynx	1		65
Cerebral hemorrhage	1		
Pyelitis	1		

Number of prescriptions compounded, 13,666.

Since my last annual report few changes have taken place. Some repairs have been made on the dispensary and resident physician's office, making them more comfortable. Necessary repairs have also been made on the hospital buildings, and the water-closets have been renewed. They are all in good condition now, except that in the white male ward, which needs further attention.

This ward is old and unfit for its present use. I recommend that a new one be erected to take its place. The old one might be removed to another part of the grounds to be fitted up as an incurable ward for colored males. In view of the large number of this class in the hospital and almshouse such a building is much needed.

The new kitchen soon to be built will fill a long-felt want. In this connection I would again recommend an improvement in the diet of the patients. It is entirely unsuitable to the sick, and convalescence and recovery are continually retarded thereby.

I would again call attention to the insufficient pay of the nurses and recommend that it be increased to \$180 per annum.

I would recommend that the old kitchen be removed to a suitable place and be fitted up as a lying-in ward. Lying-in patients are now cared for in one wing of the white female ward. This arrangement is very inconvenient, and is becoming more irksome every day.

We have been free from epidemics during the year, and the mortality has been about the same as usual.

The sanitary condition of the almshouse and workhouses has been good throughout the year.

Respectfully,

THOS. I. CHEW,
Visiting Physician, Washington Asylum.

Mr. W. H. STOUTENBURGH,
Intendant Washington Asylum.

II 2.

THE REFORM SCHOOL.

REPORT OF THE BOARD OF TRUSTEES OF THE REFORM SCHOOL.

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA, *Washington, D. C., October 10, 1888.*

GENTLEMEN: I have the honor to submit herewith, pursuant to law, the nineteenth annual report of the board of trustees of the Reform School.

Since the organization of the school, nearly twenty years ago, 1,302 boys have been received and cared for.

On the first day of the last fiscal year there were 156 boys in the school.

During the fiscal year ending June 30, 1888, 65 boys were received, making 221 boys during the year.

Of the boys received during the year 13 were committed by the supreme court of the District of Columbia; 42 by the police court, and 10 by the president of the board of trustees; 59 were received on first commitment, and 6 on second commitment.

The maximum number of boys during the entire year was 165; the minimum, 151; average during the entire year, 158; 59 boys were discharged by order of the board of trustees.

For further statistics your attention is respectfully invited to the report of the superintendent herewith.

No deaths have occurred during the year, and but nine deaths have occurred since the school was first organized, nearly twenty years ago.

Homes have been obtained for a number of the boys upon their discharge, and others have been returned to their parents and guardians.

The trustees have every reason to believe that in a large majority of cases boys discharged from the school are greatly benefited by their stay therein.

There they are taught habits of industry and obedience, and every attention is given to their morals and education, and it is the endeavor of the board to fit them to go out into the world into life's battle educated,

trained, and equipped to maintain their position in the ranks of their fellow-citizens wherever they may be thrown.

No serious sickness of any kind has occurred during the past year, and such mild cases as did occur readily yielded to treatment; and your attention is invited to the report of Dr. Wells, the physician of the school.

It frequently happens that boys who are entitled to their discharge have no proper homes, and it is impossible to find them employment in the District.

The attention of Congress was called to this subject during its last session, and a small appropriation of \$500 was made to enable the trustees to find homes for such boys and to defray their expenses in sending them there.

It is thought great benefit will result from this.

The amount appropriated is more in the nature of an experiment, and if, as the board expects, it works well, a further and larger appropriation may be asked for.

It is doing the boy as well as the school great injustice to turn him out into the world without a home or employment, and to do so is to undo all that has been done for him by the school, and to place him in a position where he may be led into temptation, while by getting him a home at a distance from this city, far from former associates and surroundings, he has an incentive to lead a new life, and an inducement to so conduct himself as to make for himself an honorable name and reputation, and become a good and worthy citizen.

A large proportion of the boys discharged from the school return to their homes in the city, and readily find employment, and in most cases are doing well.

It is for the boys without homes or friends for whom this appropriation is asked, that the school may find them for them.

While it is a small sum, and enables the board to find homes for but few boys, it is money well expended.

Estimates for appropriations for the expenses of the school for the next fiscal year have been submitted to you and the Attorney-General, as follows:

For Reform School:	
One superintendent.....	\$1,500
One assistant superintendent.....	900
Teachers and assistant teachers.....	3,500
Matron of school.....	600
Three matrons of families, at \$180 each.....	540
Superintendent of chair shop.....	660
Farmer.....	480
Engineer.....	396
Baker, cook, shoemaker, and tailor, at \$300 each.....	1,200
Two dining-room servants, seamstress, chambermaid, and laundress, at \$144 each.....	720
Florist.....	360
Watchmen, not exceeding five in number.....	1,140
Secretary and treasurer of board of trustees.....	600
	12,596
In all.....	
For support of inmates, including groceries, flour, feed, meats, dry goods, leather and shoes, gas, fuel, hardware, tableware, furniture, farm implements and seeds, harness and repairs to same, fertilizers, books, stationery, plumbing, painting and glazing, medicines, medical attendance, stock, fencing, repairs to buildings, and other necessary items, including compensation, not exceeding \$900; for additional labor or services, and for transportation and other necessary expenses incident to securing suitable homes for discharged boys, not exceeding \$500, all in the discretion of the Commissioners.....	26,000

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For enlarging boiler-house	\$3,000
For coal vaults	2,000
For additional boiler and steam-pumps	2,000
For additional outside water-closet of brick	1,000
For grading, draining, and permanently improving grounds.....	1,000
In all.....	9,000

The estimates for support of inmates and salaries are the same as for the present fiscal year.

Owing to the change of the mode of heating the buildings an additional boiler and coal-vaults will be needed, for which estimates are submitted as above.

During the last fiscal year there was appropriated—

For support of inmates	\$37,476.00
Of this amount the treasurer expended	36,576.23
Leaving unexpended balance of	899.77

Had the new family building been completed in time, additional officers would have been required, and this surplus would have been expended for that purpose.

There was appropriated for the construction of green-houses	\$4,500.00
Expended	4,498.58
Leaving unexpended balance.....	1.42

Appropriated for the construction of work-shop building	4,700.00
Expended	4,699.59
Leaving unexpended balance.....	.41

Appropriated for grading, draining, and permanently improving grounds.	500.00
Expended	494.68
Leaving unexpended balance.....	5.32

Appropriated for construction of family building and tank-house	27,980.70
Expended	26,605.66
Leaving unexpended balance.....	375.04

The greater part of this unexpended balance will be needed for drain-pipes, water-pipes, etc., in connection with the building.

There was received by the treasurer from the superintendent during the fiscal year \$3,115.65, being revenue derived from the labor of inmates and other sources, which, in accordance with the act approved February 25, 1888, has been placed in the Treasury of the United States to the credit of the United States and the District of Columbia, in equal parts.

The report of the treasurer is herewith submitted in detail, showing the expenditures made by him during the last fiscal year.

The family building and tank-house have been completed by the contractor in the most substantial and satisfactory manner, in accordance with plans submitted and approved by the Architect of the Capitol and building inspector of the District of Columbia.

The buildings were most carefully inspected during the course of their erection by members of the board of trustees and Mr. Thomas B. Entwistle, building inspector of the District of Columbia.

The new family building will accommodate about sixty boys, giving the school ample room for two hundred boys; and by this building the board is enabled to separate the larger from the smaller boys, keeping

the smaller boys in one building more readily under the eye of the superintendent and matron.

The board has always felt that the discipline of the school would be better carried out, and to the greater advantage of the smaller boys, if they could be kept to themselves and away from the larger boys.

The contract for heating the buildings has been made with Messrs. Basshor & Stebbins, of Baltimore, Md., they being the lowest bidders, and it is expected that their work will be completed on or before the 1st proximo, when the buildings can be occupied.

The new tank-house will afford additional supplies of 30,000 gallons of water, which was not only necessary to the health and comfort of the inmates, but in case of fire can be utilized for extinguishing it.

A cold-storage room has been fitted up in the tank-house, in which fruit, vegetables, meat, milk, and butter can be kept at all times and for any length of time.

Under the appropriation of \$1,100 contract has been made with George H. Corning for \$680 for the erection of fire-escapes on the building, which will be completed at an early date.

The farm has produced well, considering the season and the poor quality of the land.

Sufficient vegetables have been raised for all the needs of the school, and hay, grain, and fodder have been raised in abundance to feed the stock.

Some fine Holstein cattle have recently been purchased, which it is hoped is the nucleus of a very fine herd of this breed. Heretofore the stock has been of inferior quality. It is the desire of the board to make the institution in all its branches a model one.

Two new greenhouses have been erected, under an appropriation made by Congress for this purpose, which will add materially to the revenues of the school, besides teaching a class of boys a pleasant and profitable calling.

There has been no change among the employés of the school during the fiscal year.

They have, as a rule, discharged their arduous and trying duties with fidelity, and have all worked willingly and cheerfully, looking to the best interests of the trusts imposed upon them, for which they deserve to receive the thanks of the board.

It was the desire of the trustees that the chief clerk of the Department of Justice might be, *ex officio*, a member of the board.

A bill for this purpose was presented to Congress, but failed to become a law.

A bill was also presented, giving the trustees the right to recall, during his minority, any boy who has been discharged from the school who, in their opinion, was without a proper home, or for other reasons should be returned to the school. This bill also failed to receive favorable action by Congress.

Very respectfully,

A. J. FALLS,
President Board of Trustees.

The Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

H. Ex. 1, pt. 6—10

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA,
Washington, September 26, 1888.

GENTLEMEN: I have the honor to submit estimates for appropriations required by the Reform School of the District of Columbia for the fiscal year ending June 30, 1890:

For Reform School:

One superintendent	\$1,500
One assistant superintendent	900
Teachers and assistant teachers	3,500
Matron of school	600
Three matrons of families, at \$180 each	540
Superintendent of chair-shop	660
Farmer	480
Engineer	396
Baker, cook, shoemaker, and tailor, at \$300 each	1,200
Two dining room servants, seamstress, chambermaid, and laundress, at \$144 each	720
Florist	360
Watchmen, not exceeding five in number	1,140
Secretary and treasurer of board of trustees	600
In all	<u>12,596</u>

For support of inmates, including groceries, flour, feed, meats, dry goods, leather and shoes, gas, fuel, hardware, tableware, furniture, farm implements and seeds, harness and repairs to same, fertilizers, books, stationery, plumbing, painting and glazing, medicines, medical attendance, stock, fencing, repairs to buildings, and other necessary items, including compensation not exceeding \$900 for additional labor or services, and for transportation and other necessary expenses incident to securing suitable homes for discharged boys, not exceeding \$500, all in the discretion of the Commissioners

26,000

For enlarging boiler-house	3,000
For coal-vaults	2,000
For additional boiler and steam-pumps	2,000
For additional outside water-closet, of brick	1,000
For grading, draining, and permanently improving grounds	1,000
In all	<u>9,000</u>

Very respectfully,

A. J. FALLS,
President Board of Trustees.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REPORT OF THE SUPERINTENDENT.

REFORM SCHOOL, D. C.,
October 1, 1888.

GENTLEMEN: I have the honor to present herewith my report for the financial year ending June 30, 1888:

Total number of boys received since opening	1,302
Number of deaths since opening	9
Average age of boys when received, years	13

Rate of morality less than three-fourths of 1 per cent.	
Number of boys in institution June 30, 1887	156
Received during the year as follows:	

From supreme court, D. C.	13
From police court, D. C.	42
From president board of trustees.	10

65

Total population for the year.....	221
Number received on first commitment.....	59
Number received on second commitment.....	6
Average age of boys received during the year.....	12.6
Maximum number in school during year.....	165
Minimum number in school during year.....	151
Average number in school during year.....	157

Number of boys discharged during year: .	
By order board of trustees.....	59
By order judge of police court.....	5
By escape, not returned.....	2

Total number discharged.....	66
Number remaining June 30, 1888.....	155

Nativity of boys received during the year:	
American.....	60
Irish.....	1
English.....	1
Scotch.....	1
German.....	1
Italian.....	1

 Total received..... 65

Causes of commitment:	
Incorrigibility.....	22
Larceny.....	34
Vagrancy.....	2
Assault.....	3
House breaking.....	4

 Total received..... 65

Religious training of boys prior to entering school:	
Baptist.....	19
Catholic.....	3
Episcopalian.....	1
Christian.....	1
Methodist.....	30
Presbyterian.....	3
Unitarian.....	1
No early religious training.....	7

 Total received..... 65

Educational grade when received:	
Number ignorant of the alphabet.....	4
Number who knew alphabet only.....	10
Number could spell words of one syllable.....	2
Number could read primary lessons.....	22
Number could read well.....	27

 Total received..... 65

Number who could not write.....	23
Number could write imperfectly.....	14
Number could write legibly.....	12
Number could write well.....	16

 Total..... 65

Number who had never studied arithmetic.....	44
Number advanced to multiplication.....	9
Number advanced to long division.....	6
Number advanced to fractions.....	6

 Total received..... 65

FINANCIAL STATEMENT.

The superintendent has received from various sources, and turned the same over to Samuel W. Curriden, treasurer of the school, who has covered the same into the United States Treasury, for the benefit of the United States and the District of Columbia jointly, as follows, viz:

Amount received from chair-shop account.....	\$1,726.38
Amount received from sales farm products.....	314.70
Amount received from greenhouse account.....	601.91
Amount received from Department of Justice.....	397.65
Amount received from miscellaneous sources.....	75.00
Total.....	3,115.64

The school has closed another fiscal year with satisfactory results in all its departments. About the same average number of boys have been cared for, and quite as many as could be accommodated comfortably. A new family building, now nearly completed, will make it possible, however, to largely increase our population. It will also furnish opportunity for a more thorough classification of the inmates by separating the older from the younger boys.

Regular school sessions have been held during eight months of the year, and every boy has had the advantage of a daily attendance of from three to four hours. A large proportion of our boys are trained only in such studies as they can pursue to profit and make practical in the work they may be called to do after their final discharge. Primary arithmetic, mental and written, and the multiplication tables are taught even to the youngest boys. Reading, writing, geography, and written arithmetic, to include fractions, are the usual daily studies in each school grade.

In our "B" family there is one class in the more advanced studies, including history, algebra, and geometry. Crayon drawing upon the blackboard of maps and problems to illustrate the lessons is also practiced by this class.

In natural ability and ordinary "mother wit," our boys take in a very wide range. Some are of the highest type, bright, quick to discern, and of ready memory, while others are lamentably deficient in each and all of these gifts of nature. Considering, then, the average mental and physical condition of boys when admitted to the school—their habits of life and general antipathy to study of any kind—it will be seen that our teachers have often a very trying and difficult task to perform. The general results, however, of the present school year must prove, beyond question, that they have been both faithful and efficient in the discharge of their special duties.

The new work-shop extension has given us much additional room in that building. Our principal mechanical industry is in cane-seating chairs, and this has been, for many years, a steady source of income to the school. A full average amount of work has been done during the year. This industry has one redeeming quality, as it furnishes light and steady employment for most of the smaller boys. It can not be considered, however, or classed as skilled labor, as with even ordinary application boys soon become experts in all of its branches. It serves with us to keep their hands employed, and at the same time assists them to form habits of industry. In this connection I would suggest that it might be wise and in the interest of good economy, to ask Congress to make a reasonable appropriation to secure the necessary tools and mechanical appliances, together with skilled instructors, to

the end that a number of our larger boys might be taught some useful trade or occupation while inmates of the institution.

During the summer months we find no difficulty in securing employment on the farm for our larger boys. This is also very necessary and in every way honorable and healthful labor. During the past year the work has been vigorously prosecuted under the immediate direction of the farmer and his assistants. There has been grown a full average crop of such roots and vegetables as can be used profitably for both summer and winter supplies. Our soil is not naturally productive, but under continuous cultivation for years, and the application of fertilizing agents, a fair proportion of our cleared ground has been prepared for growing small fruits, a full variety of table vegetables, and such roots as are found valuable for winter feeding of farm stock.

The general health of the school has been good, above the average throughout the entire year. We have no deaths, nor serious accidents, or epidemic disease in any form to report. Every precaution has been taken to avoid infection from whatever source, while the sanitary condition of the buildings and grounds has been uniformly maintained. To this end disinfectants have been freely used under the advice and direction of the attending physician, Dr. Charles A. Wells, to whose annual report I beg to refer you for further and official information.

Our national holidays were all faithfully observed and celebrated in due form. On the 4th of July bunting was freely displayed and the usual amount of powder exploded. There were games and sports of various kinds, out of which the average boy managed to get his share of pure enjoyment.

Thanksgiving Day came as usual on the last Thursday in November, and was duly observed, but Christmas is always our favorite holiday at the school, and this one proved itself a worthy successor.

Coming as it did on Sabbath day, our chapel services were made appropriate to the occasion, including the singing of several beautiful anthems by the boys. Monday came also with its release from all unnecessary work, and opened with a good warm breakfast, followed by a box of mixed candies to each boy. Dinner came in due time, with a full supply of roast turkey, ample dishes of well-cooked vegetables, and pickled cabbage. Open-air exercises on the play-grounds during the afternoon gave a fitting relish to the mince pie and doughnuts furnished at the evening meal. The day closed with music and recitations in the several school-rooms.

But we have still another "Annual" worthy of mention, and with us it fairly supplants all the others. This one is practically of our own making, and is already favorably known to many good friends of the school as our "Annual entertainment, given by the boys of the Institution." It came this year on the evening of the 26th of January, and brought together an unusually large and appreciative audience from the city and neighborhood. The exercises were varied, consisting of recitations, dialogues, calisthenics, and juvenile operetta, all rendered in character costumes and with excellent musical accompaniments. We are greatly indebted to our teacher of vocal music, Mr. William K. Cohen, of the city, for valued assistance in this, as in all efforts of a similar kind.

Many strangers who have come to the city, either on business or for pleasure, have paid us the compliment of a friendly visit to the school. Our resident neighbors of the city and district come more frequently, and under the rules are always made welcome. We have been greatly

encouraged also in our good work, by occasional visits from our discharged boys, many of whom have grown up into a worthy manhood and are now engaged in business for themselves. I could name a number of these boys, some of them located in the far western States, all doing well, and all testifying their personal gratitude to the school authorities for the timely restraint and necessary discipline imposed during the years they were working out the problem of their honorable discharge.

Our Sabbath-day exercises have been continued regularly during the year, and are appointed to be held at 3 o'clock in the afternoon. These services are open and free to all friends of the school, and are in no sense sectarian. Our service of song, as rendered by the boys, with Mr. Cohen in charge of the organ, never fails to give additional interest to these hours for religious worship.

Rev. E. A. McGurk, president of Gonzaga College, visits the school one Sabbath in each month in the interest of our Catholic boys, and to administer the sacraments of their church. Every Sabbath evening the same boys are brought together to receive religious instruction from teachers who come from the city for that purpose.

On several occasions we have had choice entertainments, given gratuitously, at the school by those interested in the comfort and welfare of our boys. One evening was given up to music and "the concord of sweet sounds," another to the elocutionist's magic in his "art of putting things," while yet another was devoted to a charming voyage "over oceans and across continents," under the guiding wand of Mr. B. P. Murray, of East Washington, assisted by his wonder-producing stereopticon. On many occasions other friends have been generously sending us contributions in the shape of books, magazines, and other judiciously-selected reading-matter for a place in our library. To each and all our boys have given a cordial welcome, and I am authorized to further express their hearty appreciation of these kindly visitations and thoughtful contributions.

We desire to express, also, our many obligations to ministers of the Gospel and others who have so frequently and acceptably favored us with their presence and served us so faithfully by their words of counsel and encouragement in the conduct of our regular Sabbath-day services.

Altogether we have much to excite our gratitude in closing another year of active school work. Few changes have been made in our official force, and, with rare exceptions, all have moved in harmony and with a steady purpose to do their work faithfully and well. Under the Divine blessing, I may not even doubt the value of this work or the good it is destined to accomplish.

To the board of trustees I am sincerely grateful for their aid and counsel and for their continued confidence.

Respectfully submitted.

G. A. SHALLENBERGER,
Superintendent.

REPORT OF THE ATTENDING PHYSICIAN.

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA.

Washington, July 1, 1888.

GENTLEMEN: I am pleased to be able to report a clean bill of health at this date. With the exception of seven cases of typhoid fever, occurring in August and September, we have had no extended cases of illness, and there has been no death for the past year.

Perfect cleanliness is observed in every department; disinfectants are regularly and persistently used, and thorough daily ventilation of the buildings insisted upon.

Very truly, yours,

CHAS. A. WELLS, M. D.,
Attending Physician.

The BOARD OF TRUSTEES,
Reform School, District of Columbia.

REPORT OF THE TREASURER.

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA,

Washington, September 25, 1888.

GENTLEMEN: I have the honor to transmit to you herewith statements giving in detail my receipts and disbursements as treasurer of the Reform School during the fiscal year ended June 30, 1888:

Appropriated for salaries and support.....	\$37,476.00
Expended, as per statement of disbursements hereto appended.....	36,576.23
Leaving a balance unexpended of.....	899.77
Appropriated for construction of greenhouses.....	4,500.00
Expended, as per statement of disbursements hereto appended.....	4,498.58
Leaving a balance unexpended of.....	1.42
Appropriated for construction of workshop building.....	4,700.00
Expended, as per statement of disbursements hereto appended.....	4,699.59
Leaving a balance unexpended of.....	.41
Appropriated for grading, draining, and permanently improving grounds.....	500.00
Expended as per statement of disbursements hereto appended.....	494.68
Leaving a balance unexpended of.....	5.32
Appropriated for the construction of a family building and tank-house...	27,980.70
Expended as per statement of disbursements hereto appended.....	27,605.66
Leaving a balance unexpended of.....	375.04

I have also received from the superintendent of the school during the fiscal year \$3,115.65, being revenues derived from labor of inmates and other sources. In accordance with the act of Congress approved February 25, 1885, I have paid the same into the Treasury of the United States, to the credit of the United States and the District of Columbia in equal parts.

Very respectfully and truly, yours,

SAM'L W. CURRIDEN,
Treasurer.

The BOARD OF TRUSTEES.

152 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Appropriations and disbursements in support of current expenses of the school during the year 1888.

Appropriated for pay-roll.....	\$12,476.00
Pay-roll for average months.....	11,615.00

Unexpended..... 861.00

Appropriated for support of scholars..... 25,000.00

Compensation teachers and employees \$40.....	\$877.58
Groceries, fuel, etc. and.....	5,375.23
Floor and fuel.....	2,504.54
Fresh meats, etc. etc.....	2,206.94
Dry goods, etc. etc. etc.....	2,811.12
Laundry and soap.....	435.80
Gas and fuel.....	3,473.09
House water, paper, etc. etc.....	374.80
Furniture and improvements.....	1,774.58
Farm tools, etc. etc. etc. and.....	2,014.67
Books, stationery, etc. etc. etc.....	365.39
Reparations, fuel, etc. etc. etc. and.....	1,380.93
Medicines and medical attention.....	537.19
Farm stock.....	17.00
Miscellaneous expenses, etc. etc. etc. etc.....	722.07

24,961.23

Less: Unexpended balance..... 38.77

Unexpended.....	861.00
Pay-roll.....	38.77

Total..... 899.77

Receipts for the year 1888, in support of the Reform School of the District of Columbia, for the year ended June 30, 1888.

RECEIPTS

Appropriated for support.....	\$12,476.00
Appropriated for support of scholars.....	25,000.00
Total.....	37,476.00

DISBURSEMENTS

Name.	For what expended.	Amount.
William D. Smith	Pay-roll, month of July.....	\$911.00
John J. Smith	Compensation, July.....	19.00
John J. Smith	do.....	7.50
John J. Smith	do.....	25.00
John J. Smith	do.....	28.33
John J. Smith	Floor etc.....	205.25
John J. Smith	do.....	22.00
John J. Smith	Meat.....	193.64
John J. Smith	Groceries.....	159.32
John J. Smith	do.....	154.12
John J. Smith	Butter.....	56.24
John J. Smith	Medicine.....	22.75
John J. Smith	Coal.....	31.00
John J. Smith	Gas.....	11.75
John J. Smith	Dry goods.....	18.36
John J. Smith	do.....	23.83
John J. Smith	do.....	44.31
John J. Smith	Clothing.....	5.00
John J. Smith	Shoes.....	15.75
John J. Smith	Advertising coal proposals.....	11.00
John J. Smith	Lime, etc.....	18.60
John J. Smith	Printing.....	8.00
John J. Smith	Hack hire.....	4.00
John J. Smith	Seed.....	16.40
John J. Smith	Blacksmithing.....	10.65
John J. Smith	Hardware.....	32.96

Receipts and disbursements of S. W. Curriden, treasurer of the Reform School of the District of Columbia, etc.—Continued.

DISBURSEMENTS—Continued.

Month.	Name.	For what expended.	Amount.
1887.			
July	George Watts	House ware	\$7.68
	M. W. Beveridge	do	15.42
	George Ryneal, jr	Paint	7.00
	T. W. Smith	Lumber	32.73
	Thomas Somerville & Sons	Pipe, etc.	28.90
	G. A. Shallenberger	Sundries	25.43
Aug		Pay-roll, month of August	921.00
		Compensation, August	7.50
	Louisa Johnson	do	25.00
	Philip Nicholas	Awnings	26.25
	J. M. Fernandez	Sundries	14.60
	G. A. Shallenberger	Medical services	70.00
	C. A. Wells	Medicine	30.70
	Tchiffely & Evans	Gas	15.88
	Washington Gas-Light Company	Flour	211.85
	William M. Galt & Co	Meat	193.92
	B. R. Scannel	Butter	128.58
	George M. Oyster & Co	Groceries	88.52
	Beall & Baker	do	108.30
	Browning & Middleton	Ice	43.32
	Independent Ice Company	Kitchen ware	12.66
	M. W. Beveridge	Dry goods	11.40
	Woodward & Lothrop	do	62.38
	Lansburgh & Brother	Clothing	24.50
	Saks & Co	do	11.00
	Eiseman Bros	Hats	29.52
	C. H. Garder & Co	Dry goods	11.80
	C. W. Thorn & Co	Shoes	19.50
	R. Cohen	Blacksmithing	12.85
	J. W. Lauxman	do	8.25
	O'Neill Bros	Plants	32.50
	Craig & Brother	Farm cart, etc	54.85
	John A. Baker	Harness, etc	25.00
	K. Kneessi & Son	Hardware	14.90
	E. W. Ross & Son	do	8.05
	L. H. Schneider & Son	do	24.93
	F. P. May & Co	Lumber	39.15
Sept	T. W. Smith	Lime	31.55
	G. M. Holland	Brick	8.00
	Washington Brick Machine Company	Stationery	6.95
	E. Morrison	Carriage hire	12.00
	J. E. Berry	do	4.00
	Olcott & Cooper	Medical services	10.00
	R. Reyburn	Repairing roof	10.00
	A. O. Brummel	Groceries	45.59
Oct	Hume, Cleary & Co	Pay-roll, month of September	921.00
		Compensation	22.00
	Daniel Johnson	do	25.00
	Philip Nicholas	do	7.50
	Louisa Johnson	do	25.00
	William K. Cohen	Services to September 30	150.00
	S. W. Curriden	Groceries	121.06
	Browning & Middleton	do	102.70
	Hume, Cleary & Co	do	47.15
	Beall & Baker	Butter	119.68
	George M. Oyster & Co	Ice	26.60
	Independent Ice Company	Medicine	25.25
	Tschiffely & Evans	Gas	24.38
	Washington Gas-Light Company	Coal	1,085.00
	J. P. Agnew & Co	do	163.92
	Henry A. Clarke & Son	Dry goods	13.74
	Lansburgh & Brother	do	28.63
	C. W. Thorn & Co	Clothing	13.50
	Eiseman Bros	Sundries	3.86
	Lewis Baar, agent	Shoes	61.85
	R. Cohen	Books, etc	12.19
	J. T. Free, jr	do	14.76
	William Ballantyne & Son	Printing	3.00
	Judd & Detweiler	Hardware	15.04
	L. H. Schneider's Son	Table-ware	20.10
	M. W. Beveridge	Fire hose	20.30
	McIville Lindsay	Flower pots	32.10
	William H. Ernest	Service to September 30	39.70
	Chesapeake and Potomac Telephone Company.	Seed	20.41
	John A. Baker	Blacksmithing	12.02
	J. M. Lauxman	Harness	40.75
	K. Kneessi		

154 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Receipts and disbursements of S. W. Curriden, treasurer of the Reform School of the District of Columbia, etc.—Continued.

DISBURSEMENTS—Continued.

Month.	Name.	For what expended.	Amount.
1887.			
Oct	George Ryneal, jr	Paint, etc.	\$4.00
	T. Somerville & Sons	Pipe, etc.	25.48
	G. A. Shallenberger	Sundries	12.82
	R. A. Shreve	Sod for greenhouses	11.70
	Douglas & McKnew	Bricks	6.65
	Allen R. Adams	Copying	21.50
Nov		Pay-roll, month of October	908.00
	W. K. Cohen	Compensation	25.00
	Philip Nicholas	do	25.00
	William Beckett	do	20.00
	L. Johnson	do	7.50
	G. A. Shallenberger	Sundries	21.05
	William M. Galt & Co	Flour	189.37
	B. R. Scannell	Meat	163.76
	Woodward & Lothrop	Dry goods	192.29
	Washington Brick Manufacturing Company.	Manure	68.80
	Columbia Railway Company	do	109.20
	N. Anderson	Repairs	65.62
	Golden & Ketchum	Plastering	5.00
	Thomas T. Keane	Meat	207.39
	N. White & Co	Oysters	13.47
	Hume, Cleary & Co	Groceries	91.23
	Browning & Middleton	do	193.16
	Beall & Baker	do	35.78
	G. M. Oyster & Co	Butter	74.86
	Independent Ice Company	Ice	19.00
	George J. Mueller	Sundries	6.02
	Tschiffely & Evans	Medicine	16.04
	C. A. Wells	Medical services	112.00
	Washington Gas-Light Company	Gas	39.75
	Lansburgh & Brother	Dry goods	46.03
	Woodward & Lothrop	do	275.45
	C. W. Thorn & Co	do	21.05
	Pitkin & Thomas	Clothing	59.50
	Eiseman Bros.	do	6.25
	Auerbach & Brother	Hats	11.05
	W. H. Thompson	Caps	31.64
	R. Cohen	Shoes	20.10
	J. D. Free, jr	School-books	35.26
	M. W. Beveridge	Kitchen ware	17.09
	J. M. Lauxman	Blacksmithing	7.13
	L. H. Schneider's Son	Hardware	5.81
	F. P. May & Co	do	13.92
	Olcott & Cooper	Carriage hire	4.00
	J. E. Berry	do	8.00
	Hall Bros. & Co	Greenhouse supplies	4.34
	John Dixon	Painting	25.00
	George N. Holland	Lime, etc.	6.80
	George Ryneal, jr.	Oil, paint, etc.	20.36
	R. Leitch & Son	Pipe, etc.	45.55
	W. M. Galt & Co	Flour	213.02
	William Beckett	Compensation	18.00
	Robert Wright	do	18.00
	John Dixon	Painting	31.25
Dec		Pay-roll, month of November	923.00
	W. K. Cohen	Compensation	25.00
	Philip Nicholas	do	25.00
	L. Johnson	do	7.50
	N. Macdaniel, agent	Railroad fare for boy to Montgomery, Ala.	22.00
	Henry A. Clarke & Son	Coal	1,090.14
	Washington Gas-Light Company	Gas	52.63
	William M. Galt & Co	Flour	189.42
	B. R. Scannell	Meat	171.35
	N. White & Co	Oysters	10.50
	Hume, Cleary & Co	Groceries	121.52
	Browning & Middleton	do	191.76
	G. M. Oyster & Co	Butter	94.47
	Independent Ice Company	Ice	22.80
	Tschiffely & Evans	Medicine	6.40
	Lansburgh & Brother	Dry goods	13.30
	Pitkin & Thomas	Clothing	219.80
	C. H. Garder & Co	Caps	59.72
	C. W. Thorn & Co	Dry goods	5.32
	Eiseman Brother	Clothing	17.75
	R. Cohen	Shoes	16.85
	William L. King & Brother	Leather, etc	19.35

Receipts and disbursements of S. W. Curriden, treasurer of the Reform School of the District of Columbia, etc.—Continued.

DISBURSEMENTS—Continued.

Month.	Name.	For what expended.	Amount.
1887.			
Dec.....	K. Kneessi & Son	Harness, etc.....	\$10.00
	George Watts & Son	Tableware.....	6.89
	M. W. Beveridge.....	do	15.59
	J. D. Free, jr.....	Books, etc.....	5.13
	William Ballantyne & Son	Books	21.58
	E. Morrison	Stationery.....	3.50
	J. D. Milans	Printing.....	11.50
	F. B. Cross, jr.....	Lumber	22.27
	T. W. Smith.....	do	53.12
	F. P. May & Co	Hardware	11.78
	George Ryneal, jr	Paint.....	20.04
	George M. Holland.....	Hardware	6.75
	O'Neill Bros	Blacksmithing	11.25
	J. W. Lauxman	do	10.50
	G. A. Shallenberger	Sundries	11.45
	B. P. Murray	Entertainment	10.00
	Thomas Somerville & Son.....	Pipe.....	23.59
	Sweiths, Powell & Lamb	Trees.....	58.50
	J. P. Agnew & Co.....	Coal	125.40
	J. E. Berry	Carriage hire	12.00
		Pay-roll month of December.....	908.00
	Philip Nicholas	Compensation	25.00
	L. Johnson	do	7.50
	W. K. Cohen	do	25.00
	James Bradley	do	15.00
1888.			
Jan.....	S. W. Curriden	Services to December 31.....	150.00
	G. A. Shallenberger	Sundries	14.90
	C. A. Wells	Medical services	46.00
	William M. Galt & Co	Flour, etc.....	213.02
	B. R. Scannell	Meat	152.51
	Beall & Baker	Lard, etc	22.20
	N. White & Co.....	Oysters.....	13.33
	Hume, Cleary & Co	Groceries.....	187.13
	Browning & Middleton	do	260.86
	C. A. Denekas.....	Yeast.....	20.78
	G. M. Oyster & Co.....	Butter.....	79.96
	George J. Mueller.....	Sundries.....	18.41
	W. S. Anderson & Co	Kraut	8.25
	Independent Ice Company.....	Ice	26.60
	Tschiffely & Evans	Medicine	9.35
	Washington Gas-Light Company	Gas.....	53.50
	William R. Riley.....	Dry goods.....	43.12
	Woodward & Lothrop	do	38.06
	Lansburg & Bro.....	do	32.30
	Eiseman & Bro.....	Clothing	15.00
	Pitkin & Thomas	do	230.00
	C. W. Thorn & Co	Dry goods	23.27
	R. Cohen	Shoes	17.65
	W. L. King & Bro	Leather, etc	12.47
	William Ballantyne & Son.....	School books.....	27.54
	F. P. May & Co.....	Hardware	12.25
	M. W. Beveridge	Tableware	10.52
	W. H. Harrover	Stove, etc.....	11.85
	J. M. Lauxman	Blacksmithing	10.15
	C. Giebel	Repairs to carts	24.00
	J. A. Baker	Baskets, etc.....	9.65
	Columbia Railroad Company	Manure	109.20
	Washington Brick-Machine Company.....	do	103.20
	Hutchinson Bros.....	Repairs to range.....	7.50
	George Ryneal, jr	Paint	15.76
	L. H. Schneider's Sons	Nails, etc.	10.30
	N. Anderson	Repairing	15.00
	B. F. Guy & Co.....	Repairing roof.....	51.17
	Chesapeake and Potomac Telephone Co	Service	37.50
	Olcott & Cooper	Carriage hire	4.00
	J. E. Berry	do	16.00
Feb.....		Pay roll, month of January	923.00
	Louisa Johnson	Compensation	7.50
	William K. Cohen	do	25.00
	Philip Nicholas	do	25.00
	John Brennan	Carpentering	45.50
	G. A. Shallenberger, superintendent	Sundries.....	14.00
	John H. Wheeler	Hire of wagon	8.00
	Wellington Redd.....	Hauling ice.....	15.62
	E. P. Godwan	Ice.....	46.25
	William M. Galt & Co.....	Flour	194.67

156 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Receipts and disbursements of S. W. Curiden, treasurer of the Reform School of the District of Columbia, etc.—Continued.

DISBURSEMENTS—Continued.

Month.	Name.	For what expended.	Amount.
1888.			
Feb....	Beall & Baker	Groceries	\$40. 14
	Browning & Middleton	do	180. 96
	Hume, Cleary & Co.	do	81. 81
	B. R. Scannell	Meat	132. 53
	N. White & Co.	Oysters	5. 25
	George M. Oyster & Co.	Butter	69. 78
	Independent Ice Company	Ice	11. 40
	Tschiffely & Evans	Medicine	11. 48
	William R. Riley	Dry goods	30. 88
	Lansburg & Bro.	do	29. 71
	Woodward & Lothrop	do	24. 53
	Lewis Baer, agent	Sewing-machine, etc	39. 20
	C. W. Thorn & Co.	Dry goods	16. 14
	B. I. Behrend & Son	do	13. 36
	K. Kneessi & Son	Lap robes	7. 00
	Eiseman Bros	Clothing	31. 50
	R. Cohen	Shoes	25. 45
	W. L. King & Bro.	Leather, etc	14. 16
	Washington Gas-Light Company	Gas	62. 63
	William Ballantyne & Son	Books	40. 65
	E. Morrison	Stationery	12. 34
	E. H. Butler & Co.	Maps, etc	32. 00
	M. W. Beveridge	Tableware	14. 80
	L. H. Schneider's Sons	Hardware	5. 31
	Daniel Hannan	Plumbing	16. 75
	S. S. Shedd & Bro.	Gas-fittings	7. 00
	George W. Knox	Conveyance	6. 00
	J. E. Berry	do	38. 00
	C. Giebel	Blacksmithing	6. 75
	O'Neill Bros	do	14. 50
	George Ryneal, jr.	Paint, etc	9. 90
	J. T. Walker's Sons	Cement	3. 00
	W. Given & Co.	Farm stock	17. 00
	T. W. Smith	Lumber	23. 43
	George N. Holland	Farm tools	7. 50
	N. Macdaniel, agent	Railroad ticket to Knoxville	16. 45
March ..	John Brennan	New floor in dining-room	280. 00
	Philip Nicholas	Pay-roll month of February	908. 00
	L. Johnson	Compensation	25. 00
	W. K. Cohen	do	7. 50
	G. A. Shallenberger, superintendent	do	25. 00
	L. Moxley	Sundries	12. 18
	William M. Galt & Co.	Suits	6. 00
	B. R. Scannell	Flour, etc	221. 87
	W. J. Holtman	Meat	144. 41
	R. A. Golden	Fish	9. 70
	N. White & Co.	do	4. 00
	W. S. Anderson & Co.	Oysters	7. 88
	Hume, Cleary & Co.	Kraut	6. 50
	Browning & Middleton	Groceries	97. 87
	Beall & Baker	do	133. 09
	G. M. Oyster & Co.	do	54. 36
	Tschiffely & Evans	Butter	111. 78
	J. H. Johnston	Medicine	20. 25
	Lansburg & Bro.	Dental services	5. 50
	Saks & Co.	Sheeting	7. 77
	Woodward & Lothrop	Clothing	40. 60
	Pitkin & Thomas	Dry goods	10. 49
	Eiseman Brothers	Clothing	223. 85
	Washington Gas-Light Company	do	18. 25
	J. P. Agnew & Co.	Gas	37. 38
	H. A. Clarke & Son	Coal	22. 80
	William Ballantyne & Son	do	159. 60
	J. D. Milans	Books	15. 31
	R. Cohen	Printing	12. 75
	W. L. King & Bro.	Shoes	42. 00
	George Ryneal, jr.	Leather, etc	17. 31
	M. W. Beveridge	Paint, etc	20. 20
	George Watts	Crockery	18. 65
	J. M. Lauxman	do	10. 07
	John A. Baker	Blacksmithing	12. 55
	F. P. May & Co.	Seed	15. 38
	N. Anderson	Hardware	5. 14
	T. W. Smith	Carpentering	26. 25
	Chesapeake and Potomac Telephone Co.	Lumber	4. 91
	J. E. Berry	Service	30. 00
		Carriage hire	12. 00

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 157

Receipts and disbursements of S. W. Curriden, treasurer of the Reform School of the District of Columbia, etc.—Continued.

DISBURSEMENTS—Continued.

Month.	Name.	For what expended.	Amount.
1888.			
April		Pay-roll, month of March	\$923.00
	Philip Nicholas	Compensation	25.00
	William K. Cohen	do	25.00
	Louisia Johnson	do	7.50
	S. W. Curriden	Services to March 31	150.00
	William M. Galt & Co	Flour, etc.	215.87
	B. R. Scannell	Meat	200.80
	William J. Holtman	Fish	6.00
	R. A. Golden	do	6.75
	Browning & Middleton	Groceries	197.00
	Hume, Cleary & Co	do	149.53
	Beall & Baker	do	48.55
	George M. Oyster & Co	Butter	89.61
	H. A. Clarke & Son	Coal	57.00
	Washington Gas-Light Company	Gas	41.00
	Tschiffely & Evans	Medicine	7.80
	C. A. Wells	Services, medical	46.00
	William R. Riley	Dry goods	39.98
	R. I. Behrend & Son	do	9.63
	C. W. Thorn & Co	do	13.67
	Woodward & Lothrop	do	80.27
	C. H. Garder & Co	Caps	13.18
	R. Cohen	Shoes	19.95
	W. L. King & Bro	Leather, etc	10.85
	M. W. Beveridge	Tableware	6.95
	S. S. Shedd & Co	Gas fixtures	5.10
	Hutchinson Bros	Range-grates	12.75
	W. B. Moses & Son	Furniture	25.10
	J. M. Lauxman	Blacksmithing	14.15
	J. McDermott & Bro	Repairs to vehicles	69.10
	J. E. Berry	Conveyance	12.00
	William H. Ernest	Flower-pots	19.60
	George Ryneal, jr	Glass, etc	9.34
	J. D. Free, jr	Stationery and papers	46.53
	William Ballantyne & Son	School-books	10.85
	J. D. Milans	Printing	11.75
	Chesapeake and Potomac Telephone Co	Services, school to March 31	37.50
	do	do	15.00
	G. A. Shallenberger, superintendent	Sundries	15.91
	John Brennan	Repairs	10.91
	John P. Agnew	Coal	142.50
		Pay-roll month of April	923.00
	Philip Nicholas	Compensation	25.00
	W. K. Cohen	do	25.00
	L. Johnson	do	7.50
	William M. Galt & Co	Flour	223.57
	B. R. Scannell	Meat	212.01
	R. A. Golden	Fish	14.25
	George M. Oyster & Co	Butter	112.12
	Beall & Baker	Groceries	125.46
	Hume, Cleary & Co	do	88.07
	Browning & Middleton	do	79.18
	W. I. Holtman	Salt meat	6.25
	Tschiffely & Evans	Medicine	8.10
	H. A. Clarke & Sons	Coal	114.00
	Washington Gas-Light Company	Gas	28.13
	Woodward & Lothrop	Dry goods	106.74
	C. W. Thorn & Co	Sundries	9.10
	Saks & Co	Clothing	21.80
	Eis-man Bros	do	13.50
	C. H. Garden & Co	Hats	28.50
	W. L. King & Bro	Leather, etc	15.93
	R. Cohn	Shoes	41.95
	W. B. Williams	Furniture, etc	163.42
	F. P. May & Co	Nails, etc	14.00
	William Ballantyne & Son	Stationery	9.02
	E. Morrison	do	7.74
	G. B. Atkinson	Envelopes	5.50
	John A. Baker	Seed, etc	71.94
	David Landreth & Sons	do	30.24
	Smith, Powell & Lamb	Pear trees	27.00
	Washington Brick-Machine Company	Manure	100.40
	Columbia Railway Company	do	109.20
	W. H. Ernest	Flower-pots	23.25
	O'Neill Bros	Blacksmithing	14.63
	C. Giebel	do	25.50
	George Ryneal, jr	Glass, paint, etc	17.26
May			

158 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Receipts and disbursements of S. W. Curriden, treasurer of the Reform School of the District of Columbia, etc.—Continued.

DISBURSEMENTS—Continued.

Month.	Name.	For what expended.	Amount.
1888.			
May	J. E. Berry	Conveyance	\$28.00
	G. A. Shallenberg	Sundries	13.23
	William McDewitt	Compensation	12.00
	The Washington Post	Advertising	10.50
		Pay-roll, month of May	923.00
	William McDewitt	Compensation	12.00
	William K. Cohen	do	25.00
	Philip Nicholas	do	25.00
	Henry Logan	do	10.00
	Luke Tyler	do	10.00
	Charles Taylor	do	3.75
	Louisa Johnson	do	7.50
	Allen R. Adams	do	10.00
	William M. Galt & Co.	Flour, etc.	220.64
	Nelson Morris & Co.	Meat	192.86
	Browning & Middleton	Groceries	182.98
	Hume, Cleary & Co.	do	210.00
	Beall & Baker	do	38.43
	W. S. Holtman	do	10.07
	G. M. Oyster & Co.	Butter, etc.	91.39
	Tschiboly & Evans	Medicine	16.37
	C. A. Wells	Medical services	42.00
	Washington Gas-Light Company	Gas	28.00
	R. Cohen	Shoes	19.75
	W. L. King & Bro.	Leather, etc.	12.17
	W. R. Riley	Dry goods	17.75
	Woodward & Lothrop	do	31.02
	Lansburgh & Bro.	do	54.48
	C. W. Thorn & Co.	do	17.91
	B. J. Behrend & Son	do	14.99
	W. H. Thompson	do	26.60
	Saks & Co.	Clothing	7.50
	M. W. Beveridge	Tableware	19.05
	L. H. Schneider's Son	Hardware	10.00
	F. P. May & Co.	do	8.25
	J. M. Lauxman	Blacksmithing	11.00
	J. A. Baker	Tools, etc.	11.84
	W. S. Clark	Plants	24.00
	George Rynal, jr.	Paint, etc.	21.85
	W. B. Moses & Son	Furniture, etc.	183.99
	T. W. Smith	Lumber	14.18
	Charles Dickson, agent	Rental gas-governor	55.00
	C. H. Garden & Co.	Hats	15.68
	G. M. Holland	Lime	11.45
	G. Y. Hansell	Papering	52.75
	J. E. Berry	Conveyance	32.00
June	R. A. Golden	Fish	24.30
	G. A. Shallenberger	Sundries	8.16
		Pay-roll, month of June	923.00
	W. K. Cohen	Compensation	25.00
	Philip Nicholas	do	25.00
	L. Johnson	do	7.50
	Henry Logan	do	23.00
	Milton Johnson	do	4.50
	Luke Tyler	Repairs	23.00
	Andrew Barbour	do	24.75
	William M. Galt & Co.	Flour, feed, etc.	183.99
	Nelson Morris & Co.	Fresh meat	209.14
	Beall & Baker	Groceries	95.47
	Hume, Cleary & Co.	do	63.80
	Browning & Middleton	do	176.66
	G. M. Oyster & Co.	Butter	51.48
	Washington Gas-Light Company	Gas	13.38
	H. A. Clarke & Son	Coal	13.05
	Woodward & Lothrop	Dry goods	51.95
	B. J. Behrend & Son	do	15.39
	C. W. Thorn & Co.	do	6.75
	L. Barr, agent	Sewing-machine	36.31
	Eiseman Bros	Clothing	21.00
	W. Balamtyne & Son	Books	19.45
	J. D. Free, jr.	do	14.99
	W. Donnelly	Dental services	4.00
	M. W. Beveridge	Houseware	7.27
	G. Watts	do	2.97
	C. Giebel	Blacksmithing	11.82
	W. H. Harrover	Stoneware	3.40
	W. L. King & Bro.	Leather, etc.	13.26

Receipts and disbursements of S. W. Curriden, treasurer of the Reform School of the District of Columbia, etc.—Continued.

DISBURSEMENTS—Continued.

Month.	Name.	For what expended.	Amount.
1888.			
June....	George M. Holland.....	Lime	\$3.40
	J. Warren	Repairs.....	9.50
	George Ryneal, jr	Paint, etc.....	11.81
	Daniel Hannan	Fixtures.....	2.75
	Columbia Railway Company	Manure.....	109.20
	Washington Brick-Machine Company	do	106.80
	W. B. Williams	Furniture	54.69
	Chesapeake and Potomac Telephone Co....	Service to June 30.....	37.50
	K. Kneessi & Son	Harness	53.85
	W. Gibbons & Co	Stock	35.00
	Craig & Bro	Plants	82.50
	Rider & Addison	Sundries.....	28.83
	S. W. Curriden.....	Services to June 30	150.00
	G. A. Shallenberger.....	Sundries.....	11.53
	William McDevitt.....	Compensation	12.00
	C. A. Wells.....	Medical services.....	22.00
	J. L. Parsons.....	Repairs.....	14.25
	John A. Baker	Seed	33.50
	Ward & Cunningham	Plumbing.....	3.00
	O'Neill Bros.....	Blacksmithing.....	9.75
	Auerbach & Bro.....	Hats.....	8.60
	C. Denekas	Yeast.....	20.24
	Saks & Co.....	Clothing.....	25.85
	P. A. Golden	Fish	7.20
	F. P. May & Co	Tools	3.70
	Olcott & Co	Conveyance	8.00
	Lansburgh & Bro	Dry Goods.....	26.73
	Thomas Somerville & Son.....	Pipe, etc.....	9.28
	M. Lindsay, agent	Hose.....	11.47
	R. Cohen.....	Shoes.....	19.50
	J. McDermott	Repairing carriage.....	85.00
	J. T. Walker's Sons.....	Cement	11.08
	E. M. Gray & Co	Repairs to boilers.....	4.00
	R. Leitch & Sons	Pipe, etc.....	62.48
	Tschiffely & Evans.....	Medicine	5.20
	Charles Dickson.....	Rental gas-governor.....	5.00
	Andrews Manufacturing Company.....	School desks.....	211.80
	Jacob Karr.....	Clocks.....	57.00
	J. F. Manning.....	Slate mantels	86.00
	S. S. Shedd & Bros	Gas-fixtures	138.83
	James L. Parsons	Ice-box	700.00
	Childs & Sons	Bricks.....	63.00
	Total disbursement		36,576.23
	Leaving a balance on hand unexpended of		899.77
	Under the following heads:		
	Salaries:		
	1 house matron, etc.....	\$181.00	
	1 watchman	180.00	
	1 teacher	500.00	
	Support of inmates account.....	38.77	
			899.77

160 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Disbursements on account of the appropriation for construction of greenhouses during the fiscal year ended June 30, 1888.

Month.	Name.	For what expended.	Amount.
1887.			
July	Daniel Johnson	Labor	\$22. 50
	William McDevitt	do	12. 00
	N. Anderson	Contract for building	2, 925. 00
Aug	Daniel Johnson	Labor	22. 50
	Andrew Barbour	Ma-on work	36. 00
	William McDevitt	Labor	3. 00
	R. Leitch & Sons	Pipe	282. 29
Oct	E. M. Gray & Co.	Boiler	800. 00
	N. Anderson	Carpentering	43. 12
	T. Somerville & Sons	Pipe	148. 61
	T. W. Smith	Lumber for boiler-house	82. 64
	John Brennan	Erecting boiler-house	80. 00
	T. Somerville & Sons	Tongs	10. 08
Dec	T. W. Smith	Lumber	30. 84
	Total disbursement		4, 498. 58
	Appropriated		4, 500. 00
	Balance on hand unexpended		1. 42

Disbursements on account of the appropriation for workshop building, during the fiscal year ending June 30, 1888.

Month.	Name.	For what expended.	Amount.
1887.			
July	Andrew Barbour	Mason-work	\$49. 50
Aug	do	do	45. 00
Oct	Douglas & McKuen	Smoke-stack	325. 00
Nov	John Brennan	Contract	3, 700. 00
	do	Carpentering	36. 00
	J. W. Bowen	Painting	10. 50
	T. W. Smith	Lumber	12. 59
	Johnson & Morris	Steam-heating appliances	521. 00
	Total disbursements		4, 699. 59
	Appropriated		4, 700. 00
	Balance on hand unexpended		. 41

Disbursements on account of the appropriation for grading, draining, and permanently improving grounds during the fiscal year ended June 30, 1888.

Month.	Name.	For what expended.	Amount.
1887.			
Oct	T. Somerville & Sons	Piping	\$9. 20
	R. Wright	Labor	20. 00
	William Gaines	do	13. 75
	Daniel Johnson	do	5. 83
	William Johnson	do	5. 00
Nov	J. T. Walker & Sons	Cement	3. 00
	Washington Brick Machine Company	Brick	4. 00
	Thomas Somerville & Sons	Pipe	22. 06
Dec	William Gaines	Labor	31. 87
	William Becket	Grading	15. 00
1888.			
Jan	Washington Brick Machine Company	Brick	18. 00
	T. Somerville & Sons	Pipe	17. 87
	William Beckett	Labor	15. 00
Mar	George Gilbert	do	18. 00
	Henry Murray	do	16. 00
June	do	do	9. 60
	George Gilbert	do	23. 00
	Potomac Terra-Cotta Company	Pipe	202. 50
	I. P. Childs & Sons	Brick	45. 00
	Total disbursements		494. 68
	Appropriated		500. 00
	Balance on hand unexpended		5. 32

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 161

Statement of receipts and disbursements on account of the appropriation for a family building and tank-house up to September 20, 1888.

APPROPRIATED.

By act of August 14, 1886; for tank-house	\$4,500. 00
By act of August 14, 1886; for family building	15,000. 00
	19,500. 00
By act of February 1, 1888; for completion of both	8,480. 70
Total	27,980. 70

DISBURSEMENTS FOR TANK-HOUSE.

Date.	Name.	For what expended.	Amount.
1886.			
Oct. 20	Judd & Detweiler	Printing	\$17. 50
Nov. 10	National Republican Company	Advertising	7. 03
1887.			
Jan. 15	Evening Star Company	do	8. 50
Apr. 1	The Washington Post	do	6. 75
June 22	The Washington Critic	do	9. 50
1888.			
Apr. 19	Evening Star Company	do	7. 00
Sept. 24	J. L. Parsons	Contract for building	5,969. 32
	Basshor & Co	Tanks	1,592. 00
			7,617. 60

DISBURSEMENTS FOR FAMILY BUILDING.

1886.			
Oct. 20	Judd & Detweiler	Printing	22. 50
Nov. 10	National Republican	Advertising	10. 50
1887.			
Jan. 15	Evening Star Company	do	14. 16
Apr. 1	Washington Post Company	do	10. 00
June 22	Washington Critic	do	11. 34
30	Judd & Detweiler	Printing	16. 36
	Evening Star Company	Advertising	11. 50
1888.			
Mar. 6	N. R. Greim	Blue prints	35. 00
Apr. 18	G. B. Atkinson	Printing	27. 00
19	Evening Star Company	Advertising	14. 00
Sept. 24	J. L. Parsons	Contract for building	19,440. 70
			19,613. 06

COMMON TO BOTH.

1888.			
May 10	J. W. Drane	Services as inspector, April	\$125. 00
June 2	do	Services as inspector, May	130. 00
30	do	Services as inspector, June	115. 00
	H. W. Damrell	Services	5. 00
			375. 00
			27,605. 66
	Leaving a balance unexpended Sep- tember 24, 1888, of		375. 04

INVENTORY.

THE REFORM SCHOOL OF THE DISTRICT OF COLUMBIA,
 Washington, D. C., September 25, 1888.

GENTLEMEN: I have the honor to transmit to you herewith an inventory of household goods, farming implements, stock, carriages, etc., at the Reform School on the 1st day of July last.

Very respectfully and truly,

SAMUEL W. CURRIDEN,
Secretary.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Inventory of household goods, farming implements, stock, carriages, etc., at the Reform School, Washington, D. C., G. A. Shallenberger, superintendent, July 1, 1888.

FAMILY BUILDING.

Room 1 (officers').—One b. w. wardrobe; 1 b. w. marble-top bureau and mirror; 1 b. w. m. t. wash-stand and toilet-set; 1 b. w. m. t. center table; 3 b. w. cane-seat chairs; 2 b. w. c. s. rockers; 1 b. w. upholstered couch; 1 b. w. towel-rack; 3 window-shades (new); 1 ingrain carpet.

Room 2 (reception-room).—One b. w. upholstered couch; 2 b. w. m. t. center tables; 5 b. w. c. s. chairs; 1 b. w. c. s. rocker; 1 b. w. writing-desk; 1 ingrain carpet; 1 rug; 3 window-shades.

Room 3 (school-room).—Sixty-six single desks; 6 double desks; 1 cabinet organ; 1 teacher's table; 1 long settee; 3 wooden-bottom chairs; readers, geo., arith., spellers, and writing books for 80 boys; 1 Bible; 1 call bell; 1 pr. hair clippers; 7 wall maps of the hemispheres and different continents and countries.

Room 4 (officers').—One b. w. double bedstead, with springs, hair mattress; 2 pillows and 1 bolster; 1 b. w. m. t. bureau, with mirror; 1 b. w. m. t. wash-stand and full toilet-set; 1 b. w. wardrobe; 1 b. w. towel-rack; 1 tin foot-tub and water-bucket; 3 b. w. c. s. chairs; 1 b. w. m. t. center table; 1 ingrain carpet; 3 window-shades; 1 piece oil-cloth.

Room 5 (guest chamber).—One b. w. double bedstead, with springs, hair mattress; 2 pillows; 1 bolster; 1 b. w. wardrobe; 1 b. w. towel-rack; 1 pine bureau and mirror; 1 pine wash-stand; 1 toilet-set; 1 Brussels carpet (very old); 1 rug; 2 window-shades.

Room 6 (matron's clothes-room).—Ninety white counterpanes (boys); 250 white sheets (boys); 180 white pillow-slips (boys); 17 long towels (boys); 165 woolen blankets (boys); 31 white sheets (officers and employés); 10 white counterpanes (officers and employés); 36 white pillow-slips (officers and employés); 7 bolster-slips (officers and employés); 38 towels (officers and employés); 12 blankets (officers and employés); 6 comforts (officers and employés); 1 ingrain carpet; 1 window shade.

Rooms 7 and 11 (dormitories).—Ninety-four iron bedsteads; 94 husk mattresses; 94 husk pillows; 94 sets slats.

Room 8 (watchman's).—One cherry double bedstead; 2 husk mattresses; 1 set springs; 1 b. w. wardrobe; 1 b. w. m. t. wash-stand; 1 b. w. m. t. bureau, with mirror; 2 b. w. c. s. chairs; 1 upholstered chair; 1 wash-bowl and pitcher; 1 tin foot-tub and slop-can; 1 Brussels carpet (very old); 3 window-shades (new).

Room 9 (watchman's).—One b. w. single bedstead; 1 b. w. wardrobe; 2 b. w. c. s. chairs; 2 husk mattresses; 1 pine wash-stand; 1 pine bureau and mirror; 2 window-shades (new); 1 wash-bowl and pitcher; 1 tin foot-tub and slop-can; 1 Brussels carpet (very old).

Rooms 6 and 10 (boys' clothes-room).—Ninety-six uniform coats; 96 uniform pants; 96 collars; 96 uniform caps; 150 ft. rope; 96 prs. uniform shoes; 1 step-ladder.

Basements.—Ten long wooden benches; 14 tin wash-basins (new); 4 scrub-buckets; 2 scrub-brushes; 4 brooms; 3 coal-hods; 2 furnaces; 2 iron pokers; 1 shovel.

Hall-way (first floor, front).—One oil-cloth carpet; 1 water-cooler; 1 Brussels carpet on first flight stairs.

Hall-way (second floor).—One Brussels carpet; 1 Brussels carpet on second flight stairs (old).

Hall-way (third floor).—One carpet (old); 4 fire-buckets; 3 hand-grenades.

Back halls.—8 fire-buckets and 3 hand-grenades on second floor; 8 fire-buckets and 3 hand-grenades on third floor; 3 hand-grenades in pool-room.

MAIN BUILDING.

Fourth floor.

Room 23 (seamstress).—One b. w. bedstead, springs, and hair mattress; 2 pillows; 1 bolster; 1 b. w. m. t. bureau, with mirror; 1 b. w. m. t. wash-stand and toilet-set; 1 pine wardrobe; 1 pine table; 1 ingrain carpet; 4 window-shades.

Room 24 (chambermaid).—One b. w. bedstead, springs, and mattress; 2 pillows; 1 b. w. bureau, with mirror; 1 b. w. wash-stand and toilet-set; 1 towel-rack; 1 cane-seat rocker; 1 stove; 2 b. w. c. s. chairs; 1 pine wardrobe; 2 mosquito screens; 4 window-shades; 1 ingrain carpet.

Room 25 (laundress).—One b. w. bedstead, mattress; 2 pillows; 1 pine wardrobe; 1 pine bureau, with mirror; 1 pine wash-stand and toilet-set; 1 pine table and cover; 1 pine c. s. chair; 1 b. w. c. s. rocker; 1 towel-rack; 1 hassock; 1 window-shade; 1 ingrain carpet.

Room 26 (servant; officers' pantry).—One b. w. bedstead and mattress; 1 pine bureau and mirror; 1 pine wash-stand and toilet-set; 1 b. w. c. s. chair; 1 ingrain carpet (good); 2 window-shades; 1 piece oil-cloth.

Room 28 (servant).—One b. w. bedstead and straw mattress; 2 pillows; 1 pine wash-stand; 1 bowl and pitcher; 1 window-shade.

Third floor.

Room 15 (assistant superintendent).—One b. w. bedstead; spring-mattress; 2 feather pillows; 1 bolster; 1 b. w. m. t. bureau, with mirror; 1 b. w. m. t. wash-stand with full toilet-set; 1 b. w. m. t. center table; b. w. wardrobe; 1 b. w. upholstered couch; 2 b. w. c. s. chairs; 1 b. w. c. s. rocker; 1 b. w. towel-rack; 1 pine table; 4 ground-glass gas-globes; 1 Brussels carpet; 1 Brussels mat; 2 pieces oil-cloth; 4 window-shades.

Room 16 (first officer, "B," family).—One b. w. bedstead, springs, hair mattress; 2 pillows; 1 bolster; 1 b. w. wardrobe; 1 b. w. m. t. bureau and mirror; 1 b. w. m. t. wash-stand with toilet-set; 1 b. w. m. t. center table; 2 b. w. s. c. chairs; 1 b. w. c. s. rocker; 1 b. w. towel-rack; 1 pine table and cover; 1 tin water-can and foot-tub; 4 window-shades (good); 1 ingrain carpet (good).

Room 17 (second officer, "B," family).—1 b. w. bedstead, springs, mattress; 2 pillows; 1 bolster; 1 b. w. wardrobe; 1 b. w. m. t. bureau, with mirror; 1 b. w. m. t. wash-stand, with full toilet-set; 1 b. w. towel-rack; 2 b. w. c. s. chairs; 1 b. w. c. s. rocker; 1 pine table and cover; 2 window-shades (good); 1 ingrain carpet (good); 2 pieces oil-cloth.

Room 18 (assistant matron, "B," family).—1 b. w. bedstead, springs, hair mattress; 2 pillows; 1 bolster; 1 b. w. wardrobe; 1 b. w. m. t. bureau and mirror; 1 b. w. m. t. center table; 1 b. w. m. t. wash-stand and toilet-set; 1 b. w. writing-table; 1 b. w. upholstered couch; 1 b. w. c. s. rocker; 1 b. w. c. s. pat. rocker; 2 rush-bottom chairs; 1 b. w. towel-rack; 4 pictures; 1 ingrain carpet (good); 1 Brussels rug; 2 window-shades; 2 ground-glass gas-globes.

Room 19 (assistant matron's store-room).—One hundred and ninety-eight boy's sheets (old); 12 boy's sheets (new); 132 pillow-slips (old); 12 pillow-slips (new); 34 roller-towels (old); 12 roller-towels (new); 66 white counterpanes; 19 officer's sheets; 24 officer's pillow-slips; 10 officer's bolster-slips; 36 officer's towels; 6 officer's counterpanes.

Room 44 (soap-room).—Four brooms; 2 dust-pans; 3 scrub-brushes; 3 scrub-buckets; 2 bars soap.

Officers' hall-way, third floor.—One Brussels carpet (old); 3 pieces oilcloth; 3 hand grenades; 1 b. w. hat-stand; 2 b. w., c. s. chairs.

Back hall-way, third floor.—Sixteen fire-buckets; 6 hand grenades; 2 wooden-bottom chairs; 1 window-shade.

Room 46 (boys' clothes-room).—Fifty-six uniform jackets; 56 uniform pants; 90 uniform caps; 53 prs. uniform shoes; 62 collars.

Rooms 43 and 47 (boys' dormitories).—Sixty-four pipe-iron bedsteads (single); 64 husk mattresses; 64 excelsior pillows; 64 sets bed-slats.

Room 45 (officers' bath-room).—One window-shade (new); 1 towel-rack; 3 hand grenades.

Second floor.

Rooms 8 and 10 (parlors).—One linen-back Brussels carpet; 6 prs. lace curtains, with gilt cornices; 6 roller window-shades; 1 large b. w. whatnot; 2 sets upholstered plush furniture (10 pieces); 2 Turkish rugs; 2 large m. t. tables; 1 glass vase.

Room 12 (guest chamber).—One linen-back Brussels carpet (old); 1 large rug; 2 prs. lace curtains; 2 roller window-shades; 1 b. w. bedstead; springs; hair mattress; 2

pillows and trimmings; 1 b. w. m. t. bureau, with mirror; 1 m. t. center table; 1 b. w. towel-rack; 1 b. w., m. t. washstand; two c. s. chairs.

Room 9 (superintendent's bed-room).—One set bed-room furniture, good quality, and in good condition, walnut veneered; 1 double bedstead; 1 woven-wire spring; 1 large m. t. bureau, with mirror; 1 large m. t. washstand; toilet set; 1 large wardrobe; 1 b. w., c. s. rocker; 1 cane rocker; 4 b. w., c. s. chairs; 1 b. w. towel-rack; 1 b. w. cloth-top table, two drawers; 1 linen back Brussels carpet; 1 large rug; 1 small rug; 1 shuck mattress; 1 pr. pillow-shams.

Room 11 (superintendent's bed-room).—One set bed-room furniture, good quality and in good condition, ash veneered; 1 bedstead; 1 woven-wire springs; 1 bureau; 1 washstand; 1 wardrobe; 1 towel-rack; 1 small m. t. table; 4 oak c. s. chairs; 1 oak c. s. rocker; 1 linen-back Brussels carpet; 1 hearth rug; 1 hair mattress; 1 pr. pillows; 1 bolster.

Superintendent's bath-room.—Two pieces carpet; 1 towel-rack; 1 dozen towels; 1 soap-dish.

Hall (second floor front).—One Brussels carpet (good); 1 small walnut table; 1 water-cooler; 1 cherry hat-rack, with mirror; 1 piece oilcloth, at rear door; 3 hand grenades.

HOSPITAL DEPARTMENT.

Room 1.—One iron bedstead; 1 mattress; 1 small wooden table.

Room 2.—Two iron bedsteads; mattresses (2); 1 window-shade.

Room 3.—One iron bedstead; 1 mattress; 1 wooden (pine) table; 1 wooden-bottom chair; 1 window-shade.

Large convalescent room.—Two single walnut bedsteads; 2 mattresses; 18-ft. table; 1 pine bureau; 1 pine washstand; an old Brussels carpet; 2 c. s. chairs.

Hospital steward's room.—One set cottage furniture, in good condition; 1 ingrain carpet (good); 1 plain toilet set.

Engineer's room.—One set cottage furniture, in good condition; 1 ingrain carpet; 1 mattress; 2 pillows.

Tailor's room.—One set cottage furniture; 1 ingrain carpet.

Fruit room.—One large gas-stove; 1 large table; 1 bucket; 28 new wooden-bottom chairs.

Seamstress' store-room.—One sewing-machine; 1 wooden table; 4 wooden-bottom chairs; 1 broom; 17 boys' sheets (new); 33 boys' pillow-slips (new); 5 boys' bed-ticks (new); 1 crumb-cloth; 17 hospital pillow-slips; 14 hospital sheets; 48 employes sheets; 42 employes pillow-slips; 5 colored counterpanes; 14 white counterpanes; 90 employes towels; 24 roller-towels; 22 waiters' aprons; 25 waiters' jackets; 23 working aprons (new); 32 working aprons (old); 18 boys' waists; 16 white table-cloths; 6 colored table-cloths; 60 white napkins; 1 window-shade.

Store-room.—One hundred and fifty pounds long-bar soap; 75 cakes ivory soap; 2 dozen toilet soap; 12 papers needles; 36 dozen agate buttons; 250 pounds granulated sugar; 6 pounds mixed tea; one half box lemons; 9 uniform caps; 6 wooden buckets; 1 dozen boys' mugs; 1 dozen dining plates; 1 dozen tumblers; 9 officers' dining plates; 6 cans Royal baking powder; 6 gross assorted screws; 3 bath-brick; 25 pounds "Star" candles; 2 dozen boys' blacking; 3½ dozen boys' red handkerchiefs; 15 pairs Sunday shoes; 29 dozen boys' white handkerchiefs; 10 pairs brogans; 6 bunches leather shoe-strings; 23 dozen cotton; 2 dozen papers pins; 2 dozen tape; 20 pounds mixed grain coffee; 3 cake-boxes; one-half dozen cans salmon; 1 pair counter scales; 3 suits discharge clothes; one-half dozen brooms; one-half dozen soup plates; 1 dozen cups and saucers; 1 box Coleman's mustard; 6 cans concentrated lye; 1 gross matches; 6 dozen boys' suspenders; 6 white shirts; 1 dozen towels; 30 yards drill; 4 dozen linen collars; 6 scrub-brushes; 1 counter brush; 2 silk flags; 3 dozen straw hats; 1 small oil stove; 2 wire fruit-sieves; 4 earthen bowls; 2 dippers; 1 bottle vanilla extract; 1 dozen knives and forks; 3 pounds ground mustard; 3 gross shoe-awls; 1 spool shoe-thread; one-quarter gross boys' tablespoons; 2 tea caddies; 20 yards bleached sheeting; 12 dozen pairs boys' socks; 8 dozen paper collars; 5 boys' discharge hats; one-half dozen shoe brushes; 1 gross small flags; 1 fruit presser; one-half bats; 2 tin pans; 2 tin funnels; 4 boys' undershirts; 1 hatchet; 5 pounds ground ginger; 5 pounds ground pepper; 1 large tin boiler; 1 dozen shoe-knives; 1 dozen patent awl-hafts; one-half dozen pegging awls.

Doctor's office.—Gum acacia, 1 lb.; gum camphor, 2 lbs.; sulph. magnesia, ½ lb.; pulv. alum, 1 lb.; pulv. licorice, ½ lb.; acetate plumb., ½ lb.; pulv. acacia ½ lb.; carb. ligni., 4 oz.; muri. ammonia, 1 oz.; zingiberis pulv., ½ lb.; sub. nitrate bismuth, 4 oz.; pulv. ipecac, 2 oz.; chlo. potassium, ½ lb.; hydrarg. chlo. mite., 1 oz.; pulv. lb.; castor oil, 6 oz.; comp. syr. sarsap., 1 qt.; vinum ipecac, ½ pt.; syr. rhei. arom., 1 qt.; spr. camphor, ½ pt.; arnica, ½ pt.; comp. tr. cinchona, 1 dr.; bi-carb. soda, 1 lb.; rochelle salts, 1 lb.; bi-tart. pot., 1 lb.; creta prep., ½ lb.; cupri sulph., 4 oz.; ferri sulph., 2 oz.; benzoicum acidum, ½ lb.; brom. potassium, 4 oz.; nit. potas., 1 lb.; rhenm

china, 2 oz.; pulv. opii, $\frac{1}{4}$ oz.; oxalic acid, 1 dr.; magnesia, $\frac{1}{4}$ lb.; olive oil, 1 pt.; alcohol, 1 qt.; ex. cal. bark, $1\frac{1}{4}$ pt.; syr. w. cherry, 1 pt.; sp. ether niter, 1 pt.; oil origani, 4 oz.; tinct. cinchona, $\frac{1}{4}$ pt.; gentiana, $1\frac{1}{4}$ pt.; opii camphor, 1 pt.; tr. cat. echu, 4 oz.; sp. ammonia, 1 pt.; tr. opii, $1\frac{1}{4}$ pt.; tr. capsici, 1 pt.; tr. digitalis, 1 oz.; tr. cantharides, 4 oz.; tr. gelsimine, 2 oz.; comp. sp. lavender, $\frac{1}{4}$ pt.; comp. syr. scilla-2 oz.; sp. menthi pip., $\frac{1}{4}$ oz.; vinum antimony, $\frac{1}{4}$ pt.; liqr. potas. arsen., 2 oz.; dil. nit. acid, 4 oz.; tr. ferri chlor., $\frac{1}{4}$ pt.; tr. val. ammonia, $\frac{1}{4}$ pt.; tr. cardomon, 1 oz.; tr. asafœdita, $\frac{1}{4}$ pt.; tr. belladonna, 4 oz.; tr. myrrh, 1 pt.; tr. verat. vir., 2 oz.; ex. buchu, 8 oz.; uva ursi pl., 4 oz.; syr. ferri iodide, 1 lb.; comp. tr. benz., 1 pt.; creosotum, $\frac{1}{4}$ oz.; Flem. tr. aconite, 4 oz.; comp. cath. pills, 250; 3-gr. qui. pills, 2 doz.; 2-gr. gui. pills, 100; 3-pt. gr. top crystal bottles, 30; 2 demijohns; 1-pt. gr. top crystal bottles, 24; 9 catheters; $\frac{1}{4}$ -pt. gr. top crystal bottles, 24; 1 office table; 6-oz. gr. top crystal bottles, 30; 2 spatulas; 2 stone jugs; 1 copy "U. S. Dispensatory;" 1 prescription case; mustard plasters, 20; 1 graduating measure; adhesive plaster, $1\frac{1}{4}$ yds.; elm bark, 1 lb.; ex. ergot, 4 oz.; dil. sulph. acid, 4 oz.; chloroform, 1 lb.; hydra. chloral, 2 oz.; lunar caustic, $\frac{1}{4}$ oz.; acetate potas., 4 oz.; blue mass, $\frac{1}{4}$ lb.; gueriana, 4 oz.; croton oil, 1 oz.; powd. squills, 1 oz.; powd. digitalis, 1 oz.; 1 lot corks; 1 lot ass't'd pill-boxes; nit. pot., 1 lb.; syringes, 2; brom. ammonia, 1 oz.; dover's powders, 2 oz.; tannic acid, 4 oz.; syr. tolu, 1 pt.; fl. ex. cascara, $\frac{1}{4}$ pt.; tr. nux vom., 4 oz.; vaseline, 1 lb.; mustard seed, 1 lb.; syr. scilla, 1 qt.; tr. rhubarb, 12 oz.; ex. cascara, $1\frac{1}{4}$ pts.; syr. wild cherry, 1 pt.; aqua ammonia, 1 pt.; aq. camph., 1 qt.; oil pep., 4 oz.; salicylate soda, 2 oz.; pulv. hydrastis, 1 oz.; tr. catechu, 4 oz.; sulph. quinine, 2 oz.; salol pills, 100; carbolic acid, 1 pt.; antipyrine, 1 oz.; bal. copaiba, 4 oz.; sulph. morphia, 1 dr.; tr. hyoscyamus, 2 oz.; sulph. cinchondia, $\frac{1}{4}$ oz.; tr. guiacum, 4 oz.; cerate cantharides, $\frac{1}{4}$ lb.; sulph. juniper, 2 oz.; comp. res. cerate, $\frac{1}{4}$ lb.; 1 bot. es. ginger; belladonna plasters, 6; 1 cake naphtha soap; 1 box empty capsules.

First floor.

Room 1 (superintendent's office).—One 8-ft. b. w. office table; 1 b. w. roller-top desk; 1 b. w. writing-desk and secretary; 1 Herring's pat. safe; 7 b. w. c. s. arm-chairs; 1 b. w. c. s. revolving arm-chair; 5 photographs of former trustees; 4 window-shades; mantel ornaments; 1 Webster's Dictionary; office record-books; 1 linoleum carpet; office stationery, consisting of letter-paper, envelopes, pens, etc.; $\frac{1}{4}$ gro. lead-pencils; 1 thermometer; 1 dress-brush and holder; 1 city directory for 1888; 1 pr. letter scales; 1 dust pan and brush; 1 letter-press, book, and stand; 5 hand-grenades; 1 waste basket; 2 cuspidors; 3 trays; 2 index-books; 1 droplight and shade; 2 pen-racks; 3 inkstands; 1 call-bell; 1 pen-wiper; 2 paper-weights; 1 2-ft. rule; 1 ink eraser; 3 lap-ropes; 1 whip; 1 broom; 5 mem. spindles.

Room 2 (reception room).—One b. w. book-case; 1 b. w. m. t. center table; 1 b. w. cloth-top writing-table; 1 new set cherry upholstered furniture, consisting of 1 couch, 3 chairs, and 2 rockers; 3 cane arm-chairs; 4 window shades (new); 1 linen-back Brussels carpet (new); 2 mantel ornaments and 1 vase; 427 library books; 25 Testaments; 7 large "Gospel Hymns;" 16 small "Gospel Hymns."

Room 3 (superintendent's dining-room).—One Brussels carpet (good); 1 crumb-cloth; 1 rug; 1 extension table (ash); 10 cane-seat dining chairs; 2 c. s. arm-chairs; 1 side-board; 1 refrigerator; 2 window-shades; $1\frac{1}{4}$ doz. china cups and saucers; 6 soup plates; 1 doz. dining plates; 1 doz. tea plates; 1 doz. dessert plates; 1 doz. silver forks; 1 doz. ivory-handled knives; 1 doz. dessert saucers; 1 side table; 1 sugar bowl and creamer; 1 doz. tablespoons; 1 doz. teaspoons; 1 doz. indiv. butters; 1 spoon-holder; 1 carving-knife and fork; 1 water pitcher; 1 call-bell.

Room 4 (officers' dining-room).—One Brussels carpet (old); 2 rugs (old); 1 extension table; 2 b. w. sideboards; 9 dining chairs; 1 doz. dining plates; 1 doz. dessert saucers; 1 doz. tablespoons; 1 vinegrette; 1 doz. teaspoons; 9 tumblers; 1 doz. indiv. butters; 1 sugar bowl and creamer; 1 glass spoon-holder; 1 doz. soup plates; 1 silver fruit dish; 2 glass fruit dishes; 2 window-shades; 1 carving-knife and fork; 1 call-bell; 1 water pitcher; 1 crumb-cloth (old).

Room 6 (employees' dining-room).—One linoleum carpet; 2 b. w. extension tables; 16 wooden-bottom chairs; 1 ash sideboard (old); $1\frac{1}{4}$ doz. dining plates; $1\frac{1}{4}$ doz. soup plates; 4 soup tureens; $1\frac{1}{4}$ doz. silver forks; $1\frac{1}{4}$ doz. knives; 2 carving-knives and forks; $1\frac{1}{4}$ doz. cups and saucers; 16 tumblers; $1\frac{1}{4}$ doz. tablespoons; 1 doz. teaspoons; 1 water pitcher; 3 sugar bowls and 3 creamers; $1\frac{1}{4}$ doz. indiv. salts; 2 window-shades.

Lower hall, front.—Two b. w. hat-racks; 1 large and 2 small tables; 1 cooler and stand; 1 linoleum carpet; 1 Brussels stair carpet (new); 1 clock; 1 fire extinguisher; 1 step-ladder; 3 hand-grenades; 1 thermometer; 1 piece Brussels carpet.

Room 35 (officers' pantry).—Two long pine tables; 3 coffee-pots; 3 slop-buckets; 2 wooden-bottom chairs; 1 carving-knife; 1 knife cleaner; 1 dust pan and brush; 1 broom; 1 water-bucket; 4 tin trays; tin dish-pans; 1 wash-dish; 1 crumb tray and brush.

Room 32 boys' dining-room and pantry.—Fifteen 10-ft. b. w. tables; 125 wooden-bottom chairs; 2 officer's high chairs; 17 window-shades; 2 scrub-brushes; 1 8-ft. bread table; 1 dust pan and brush; 5 wooden buckets; 2 long-handled dippers; 5 tin dish-pans; 1 salt-box; 3 brooms; 122 dining plates; 30 bread plates; 17 molasses pitchers; 15 salt cellars; 2 bread knives; 122 drinking mugs; 3 hand-grenades; 122 knives and forks; 122 iron spoons.

Room 37 school-room "B." family.—Forty-eight single and 3 double desks; 97 wooden-bottom chairs; 12 illuminated mottoes; 2 pictures; 7 wall maps, including hemispheres and different continents and countries; 1 "Lord's Prayer"; 1 "Silent Comforter"; 2 teachers' tables; 3 hand-grenades; readers, arithmetics, geographies, writing-books, pens and holders for 60 boys; 50 "Gospel Hymns"; 17 window-shades; 100 library books.

Basement "B." family.—Fourteen long wooden benches; 1 coal stove; 3 wooden-bottom chairs; 1 tin wash-basin; 2 water-buckets; 1 iron water-pipe key; 1 coal-hod; 1 shovel.

Kitchen.—One range; 4 long wooden tables; 1 iron boiler; 3 iron pokers; 1 coffee and 1 tea pot; 3 long-handled dippers; 1 tin kettle; 5 tin dripping-pans; 2 iron flesh forks; 5 long-handled frying-pans; 3 tin pans; 3 long-handled iron spoons; 1 toaster; 1 meat board; 2 rolling-pans; 3 large yellow bowls; 1 steak masher; 1 set cake molds; 1 grater; 2 meat saws; 1 egg beater; 1 strainer; 2 egg slicers; 2 skimmers; 2 water pails; 2 soap-buckets; 2 milk pans; 15 milk crocks; 2 cream freezers; 1 dried-beef cutter; 3 hand-grenades; 1 small table; 2 chopping blocks; 3 wooden-bottom chairs; 1 cullender; 1 pepper-box; 1 barrel strup; 1 cake box; 1 gallon New Orleans molasses; one-fourth barrel brown sugar; one-half sack salt; 5 pounds coffee; 1 pound mixed tea; 20 pounds rice; one-fourth tub officers' butter; one-half tub boys' butter; one-half tub lard; one-fourth ton coal; 1 pair scales; 1 tub; 1 cake board; 1 cleaver; 1 large tea roller; 1 wash basin; 4 saucepans; 4 dining plates; 1 shovel; 1 castor; 5 tin plates; 1 clock; 1 waffle-iron; 1 upright boiler, and 3 steam kettles.

OLD BUILDING.

Southeast room.—One pine double bedstead; 1 straw mattress; 1 bolster; 3 feather pillows; 1 pine bureau; 1 mirror; 1 writing-table; 1 pine wash-stand; 1 bowl, pitcher, soap-dish, and soap-can; 2 c. s. chairs; 2 window-shades; 1 old Brussels carpet; 1 mat; 1 calico curtain.

Southwest room.—One pine bedstead; 2 straw mattresses; 1 bolster; 2 pillows; 1 cane-seat chair; 1 pine bureau with mirror; 1 pine wash-stand; 1 pine table; 1 bowl and pitcher; 1 tin foot-tub; 1 old carpet; 1 calico curtain; 3 window-shades.

Northeast room.—One b. w. bedstead; 1 mattress; 1 pillow; 1 pine bureau, with mirror; 2 pine wash-stands; 1 bowl and pitcher; 1 calico curtain; 1 pine table; 1 old carpet; 2 window-shades; 1 piece oil-cloth.

Northwest room.—One b. w. bedstead; 1 pine bedstead; 3 pillows; 2 bolsters; 2 husk mattresses; 1 pine table; 2 pine bureaus; 1 mirror; 1 bowl and pitcher; 1 tin slop-can; 2 calico curtains; 2 window-shades; 2 chairs.

Second hall.—Three hand-grenades.

Men's sitting-room.—One b. w. ex. table; 1 stove; 1 mirror; 1 window-shade; 1 long towel; 3 hand-grenades.

Cook's room.—One cherry double bedstead; 1 bureau with mirror; 2 c. s. chairs; 1 c. s. rocker; 1 wash-stand; 1 bowl and pitcher; 2 window-shades; 1 husk mattress; 1 old woolen carpet.

Bakery.—One kneading-trough; 1 8-ft. table; 2 buckets; 1 iron rake; 1 spade; 1 iron poker; 2 bakers' peels; 1 chair; 6 iron bread-pans; 2 large bread-boxes; 1 doz. tin pie-plates; 1 sugar bucket; 1 salt tub; 1 baker's scales; 1 sieve; 1 spice can.

Furnace-room.—One W. E. Wood furnace; 1 iron shovel; 1 rake; 2 iron pokers; 1 hoe.

Plumber's shop.—One grind-stone; 1 pipe vise; 1 set stock and dies; 8 prs. pipe-tongs; 2 gas-pipe cutters; 2 monkey-wrenches; 2 prs. shears; 3 hammers; 1 doz. files; 2 gas-pipe plyers; 1 saw; 1 glass-board; 1 force pump; 7 lawn mowers; 4 swing gas brackets; 1 dust-brush; 1 vise; 50 lbs. old brass; 150 lbs. old iron pipe; 2 oil cans; 1 plunger.

Chair shop.—Thirty steel needles; 4 pegs; 25 regulators; 9 hammers; 1 hatchet; 1 brace; 6 bits; 2 saws; 2 buckets; 2 cups; 1 vise; 1 anvil; 3 brooms; 3 awls; 1 auger; 1 screw-driver; 1 cutting-plyers; 1 round-nose plyers; 2 coils wire; 1 dust-pan and brush.

Shoe-shop.—Sixty-five prs. shoes under repair; 16 prs. shoe lasts; 4 shoe-makers' seats; 4 clamps; 1 iron last; 6 shoe hammers; 4 prs. pincers; 1 set shoe patterns; 2 eyelet punches; 1 spoke-shave; 4 peg cutters; $\frac{1}{2}$ doz. pegging awls; 1 gross setting awls; $\frac{1}{2}$ gro. pegging-awl blades; 2 boxes eyelets; $1\frac{1}{2}$ oz. bristles; 9 rasps; 1 ball flax; 2 doz. balls wax; $\frac{1}{2}$ side harness leather; 1 heel ball; 2 pks. pegs; 4 bot. ink; 1 sand-stone; $\frac{1}{2}$ side soleleather; 1 strap cutter; 8 papers shoe nails; 5 knives; 2 stitch-wheels; 1 peg marker; 1 stove; 1 water-bucket.

Tailor's shop.—Four Singer sewing-machines; 4 Branson sock-knitters, with attachments; 2 prs. shears; 2 prs. scissors; 2 pressing-irons; 2 sad-irons; 1 cutting-board; 1 small table; 7 wooden-bottom chairs; 3 stools; 1 press-stand, with 2 boards; 1 bench for knitters; 1 square; 1 tape-line; 1 line coat patterns, 26 to 36; 1 line shirt patterns, 8 to 18; 20 yds. winter pantaloons goods; 20 yds. winter coat lining; 2 yds. black muslin; 20 spools cotton; 20 doz. pant-buttons; 3 doz. shirt-buttons; 37 prs. pants (new); 12 coats (new); 32 shirts (new); 38 prs. socks (new); 10 prs. civilian pants; 10 civilian coats; 75 prs. winter pants (old); 120 prs. summer pants (old); 40 winter coats (old); 167 summer coats (old); 260 winter shirts (old); 205 summer shirts (old); 1 water-bucket; 1 drinking-cup; 1 scrubbing-brush; 1 broom.

Laundry.—Two washing-machines; 7 wooden tables; 1 steam-engine; 15 clothes-dryers; 1 ladder; 6 wash-tubs; 3 buckets; 3 fire-buckets; 2 clothes-horses; 22 sad-irons; 1 laundry stove; 4 clothes-baskets; 1 window-shade; 7 stands for sad-irons; 1 water-tank; 3 hand grenades.

Laundry, basement.—One upright boiler; 1 engineer's bench; 1 vise; 1 poker; 2 shovels; 3 tons Cumberland coal; 2 tin oil-cans; 1 chair.

Pump-house.—One upright boiler; 2 tons Cumb. coal; 1 steam-pump; 3 oil-cans; 2 wrenches; 1 wooden settee; 1 ax; 1 bucket; 1 wire-puller; 1 hose-carriage; 1 shovel; 1 poker.

Box factory.—Fourteen bcls. No. 40 plain strawboard; 5 bcls. No. 30 plain strawboard; 2½ bcls. No. 60 plain strawboard; 5 bcls. No. 70 plain strawboard; 5 bcls. No. 40 lined strawboard; 8 bcls. No. 70 lined strawboard; 5 bcls. No. 25 lined strawboard; 5 bcls. No. 50 lined strawboard; 2 bcls. No. 60 lined strawboard; 11 qrs. blue common paper covering; 18 qrs. yellow common paper covering; 18 qrs. orange common paper covering; 10 qrs. pink common paper covering; 10 qrs. green common paper covering; 6 qrs. red common paper covering; 3 qrs. tea common paper covering; 21 qrs. white common paper covering; 4 qrs. manilla common paper covering; 7½ qrs. white glazed paper covering; 2 qrs. pink glazed paper covering; 11 qrs. pearl glazed paper covering; 2 qrs. maroon glazed paper covering; 5 qrs. bronze glazed paper covering; 4½ qrs. green glazed paper covering; 1 qr. blue glazed covering paper; 1,000 pieces narrow lace; 600 completed boxes, Small & Sons; 200 completed boxes, I. L. Blout; 305 completed boxes, "King's Palace;" 2,250 completed boxes, Geo. I. Mueller; 100 completed boxes, C. F. Hale; 400 common bonnet boxes, for sale.

Barn.—Twelve horses; 12 cows; 4 calves; 5 sets cart harness; 3 sets single harness; 3 sets double-working harness; 2 bridles and back-straps for carriage; 1 saddle; 1 pat. harness for plow; 3 sets plow harness; 13 halters; 5 carts; 2 large farm wagons; 1 covered buggy; 1 2-seated carriage; 1 Dayton wagon; 2 express wagons; 1 light spring-wagon; 1 jump-seat carriage; 2 feed-troughs; 3 double and 2 single plows; 3 shovel-plows; 2 cultivators; 2 harrows; 1 2-horse mowing-machine; 2 scythes; 1 grain fanning-machine; 1 hand seed-sower; 1 lot pieces old harness; 2 new breast-straps; 2 hame-straps; 1 2-horse treading-machine; 1 horse-power hay-cutter; 1 horse-power saw; 1 cross-cut saw; 1 stone-rammer; 1 horse-power threshing-machine; 1 grain-cradle; 1 level; 2 doz. short-handle shovels; 3 long-handle shovels; 9 picks; 6 spades; 30 hoes; 12 manure-forks; 6 hay-forks; 1 new horse-power hay-fork; 1 horse hay-rake; 2 jack-screws; 8 corn-kives; 1 mall; 5 wedges; 6 ice-hooks; 4 axes; 1 circular saw; 1 hand hay-cutter; 2 carriage-poles; 12 grenades; ½ bush. measure; 2 prs. pruning shears; 2 grain cradles; 4 Army overcoats; 1 root cutter; 6 iron wheelbarrows; 4 buckets; 5 currycombs; 5 horse-brushes; 10 ft. of hose; 1 lot tent canvas (old); 1 saddle-blanket; 4 horse-nets; 2 boxes wagon-grease; 2 water-troughs; 2 fire hose and boxes; 1 log-chain; 2 watering-pots; 20 grain bags; 15 lbs Dutch turnip seed; ½ bu. kale seed; 20 bu. rye; 100 bu. unthreshed rye; 23 tons hay, 2 crowbars.

Piggery.—Eight sows; 1 boar; 13 shoats; 6 young pigs; 1 feeding-trough; 1 shovel; 2 buckets.

Blacksmith shop.—One drill; 1 anvil; 1 bellow; 1 vise; lot of old iron, fit only to send to junk-shop; 1 boiler, formerly at greenhouse.

H 3.

INDUSTRIAL HOME SCHOOL.

GEORGETOWN, D. C., *November 6, 1888.*

GENTLEMEN: Inclosed please find the annual report for the Industrial Home School of the District of Columbia.

Yours, respectfully,

MRS. H. W. BLACKFORD,
Secretary.

THE HON. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REPORT.

THE HON. COMMISSIONERS OF THE DISTRICT OF COLUMBIA :

The following is the report of the Industrial Home School for the fiscal year closing June 30, 1888.

This report contains the history of the twentieth year of the existence of the association, and the retrospect is in many respects satisfactory. In the two decades our records show that over two thousand children have received the benefits of our care and have learned the way to carve their own destinies in the world.

Many, as we know, have become good members of the communities among which they are widely scattered. Many are heads of families in this District and in distant cities and States, and it is hoped that the means will be afforded us to continue the work of imparting, in connection with other training necessary for youth, settled habits of industry and that feeling of independence growing out of tuition that combines the development of the hand, the heart, the mind, and the soul.

The affairs of this institution are controlled by a board of managers, elected annually in October.

The Board is subdivided into committees, having charge of: (1) Admission and placement. (2) Education. (3) Industries. (4) Finance, audit, and ways and means. (5) Greenhouse and garden. (6) House-keeping. (7) Building, grounds, and stock. (8) Employés.

The managers meet monthly to consider reports of officers, superintendent, and matron, to pass on requisition for supplies, and to transact the necessary business for the government of the institution.

EMPLOYÉS FOR THE YEAR AND SALARIES.

W. S. Stockbridge, superintendent	\$1,200
Joseph Simmons, carpenter (employed part of the year)	600
Edward Biedemer, florist	300
Fallmore Donaldson, farmer (employed part of the year; place now vacant) ..	300
Emily P. Stockbridge, matron	300
M. M. Donovan, cottage matron	300
Nelly Moot, seamstress	240
Patty H. Parker, housekeeper	300
Clara L. Donaldson, nurse	180
One laundry-woman	144
Two housemaids, \$120 each	240
Total annual salaries for twelve employés at Home	4,104
Clerk to treasurer	100
Total	4,204

THE YEAR'S WORK.

The number of wards at Home July 1, 1887	80
Admitted during the year	50
Total	130
Discharged	45
Remaining July 1, 1888	85
The monthly average being	86
Adult paupers	2
Officials and employes	14
Making average family	102
Returned to friends	23
Placed in homes	14
Left without leave	8
Total	45

The total cost of maintenance was \$10,237.26.
 Cost per capita, found by dividing the gross cost by 88 (the number of dependents),
 is \$116.33.

In this computation is included all salaries, except that of the carpenter, which expenditure was added to the cost of articles manufactured in the work-shop, and all ordinary repairs and furniture purchased to replace broken or worn-out articles.

The cost of maintenance includes also expenditures for clothing, nearly all of which, except shoes, is made on the premises.

ADMISSION AND PLACEMENT.

This important branch of the work is intrusted to a committee that meets twice a month at the rooms of the Children's Aid Society, 910 F street northwest, where all applications for admission and discharge of wards are considered. In each case of admission written application is required, signed by the parent or guardian, and personal examination made into all attending circumstances.

Before final admission the application is passed upon by a medical examiner, who reports upon the physical and mental condition of the proposed inmate. By this rule the introduction of contagious diseases is prevented. Numerous attempts are made to place in the Home children of impaired intellect, but such cases are necessarily declined.

The institution is much indebted to Mrs. K. B. Barlow for efficient work in visiting the homes of the applicants, in aiding to provide places for those discharged, and in helping to find asylums for many distressing cases not eligible for admission.

Eight of the children are reported as having left without leave, they having generally been either decoyed by parents who yearned for their return or, as in several instances, the ward has left from similar feelings. We are without power to forcibly insist upon return in such cases.

The ages of admission have been limited by regulation of the managers to be not under five or above twelve years.

The pressure on the institution to admit wards from territory outside of the District of Columbia has in no way abated; it is rather increasing in this and all other eleemosynary institutions of the District. While stringent measures are being enacted by Congress to prevent the importation of dependent and delinquent classes from foreign countries,

no steps have been taken to relieve the citizens of the District of Columbia from pauper immigration, who are thus unjustly compelled to care for and support by taxation those who should properly be under the charge of neighboring States. This fact should be brought to the special notice of committees of Congress in charge of passing upon appropriations for the District of Columbia. Many wards are admitted at the solicitation of members of Congress.

Of the number admitted last year twenty-seven were bona fide residents, nine unknown, and fifteen imported from outside territory.

Exhibit A, accompanying this report, shows the names of each ward admitted, and place of birth, so far as ascertained.

Exhibit B contains the names of all wards who have been discharged or classed as absconded, and their present abode and occupation, as far as ascertained.

The Industrial Home is in no respect a penal institution. Many, in fact the larger portion, of its inmates are brought there from absolute necessity. They are under no taint by being remanded to our custody by judgment of a court, and do not suffer in after life by reason of having been inmates of the Home.

Our institution is a step upward and onward in the work of philanthropy, teaching industry, courage, and self-help in addition to the ordinary routine of education, and we can happily point to the history of many who have left the home now becomingly pursuing the duties of life in consequence of training received under our guidance.

During the past year several have been placed in good positions.

Figure 10 is a detail of some of the results presented in this discussion.

RELATIVE AND GENERAL CONDITION OF PUPILS.

The school at the academy has been excellent. All have improved in general and especially in respect of being removed from improper surroundings and influences. We are glad to hear the boys that when they are sent home will not only know how to do something, but to do it intelligently and in a really way.

And in the circumstances, subject to the management we are responsible for, and those who have been in our charge the results are not only reasonable and trustworthy, and the consciousness of having done what was that otherwise might have been better, and more, and physically better, is a great satisfaction in the work and the part in the undertaking.

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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... ..

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That the institution has been so singularly exempt from any wide-spread and serious disease attests the healthfulness of the locality and the good sanitary condition of the building, as well as the judicious management of your superintendent.

At a former meeting of your body I took occasion to recommend that separate hospital rooms be designated for the boys and girls. This I trust will meet the early attention of the committee to whom it was referred.

In conclusion, I take this occasion to acknowledge the great assistance I have at all times received from your matron, Mrs. Stockbridge, by her self-denying and zealous nursing of the sick, as well as her promptness and precision in observing all the directions of your medical attendant.

I have the honor to be, etc.

J. F. R. APPLEBY, M. D.

The boys and girls occupy separate buildings, the former being a cottage home, under the charge of a matron. The dormitories are healthful and well ventilated.

EDUCATIONAL FEATURES.

Two schools are maintained on the premises, under the management of public school teachers of the District, Mr. and Mrs. John W. Douglass. The pupils have satisfactorily advanced under their tuition, and compare favorably with scholars in any of the public schools, the textbooks and course of study being the same adopted in all the other District schools.

Kindergarten features have continued as heretofore.

For eight weeks, during vacation, a special school session was maintained for the younger children, under the charge of Miss Jennie Gardner, at a salary of \$5 per week.

This course has been adopted by the managers to keep the children too young to work out of mischief, and to protect and instruct them during the absence of the regular teachers.

RELIGIOUS EDUCATION.

Religious training is not neglected. The children attend church regularly, and a Sunday-school is maintained by a corps of volunteer ladies and gentlemen of acknowledged zeal and earnestness.

INDUSTRIES.

The following is extracted from the special report of the committee on industries, of which Mr. J. B. T. Tupper is the efficient chairman:

Instruction during the year has been imparted to the pupils of suitable age in industrial work in the following branches:

To boys, in the propagation and care of flowers and plants, in the use of the hammer, saw, chisel, and plane, and other common working tools, the turning-lathe, the boiler and steam-engine, in the use of the hoe and spade, in the care of the stock kept on the place, and in such farm and garden work as the few acres under cultivation afford opportunity.

The girls received instruction in sewing, cooking, washing, ironing, and general domestic work.

About one-half of the children are too small for any employment.

Instruction in these branches has gone on at the same time with the regular school studies, one-half day being given to each, and it has been found, as stated in previous annual reports of the board, that the progress in the intellectual or the scholastic branches is about the same as where the pupils attend school all day.

The object has been, as far as the girls are concerned, to teach them to become good housekeepers, that they may obtain suitable homes or employment as domestics, or in other capacities, according to their tastes or qualifications.

The girls' work, however, is not under the direction of the committee on industries, but under the housekeeping committee, so that what has been done in this line does not properly come within the scope of this branch of the report.

In regard to the boys, the object is not to teach specific trades, nor to educate them to become artisans in any special branch of industry, but to enable them to obtain

knowledge of the elementary principles of handicraft, acquire habits of industry, and to fit them to obtain employment on farms or in any of the common trades and occupations where they can obtain a livelihood. The general object in the main is the same as that which the department of manual training recently started in the public schools of this city has in view.

The industrial education imparted is not for the purpose of making the boys engineers, blacksmiths, or architects, but is a part of their general education with reference to a fuller development of all their powers and promoting their success in whatever sphere of labor their tastes or their talents lead them to enter when they arrive at mature years.

Our institution, however, has something farther in view than the public schools have in reference to their pupils. It stands in relation to the pupils as the parent or guardian as well as teacher, and is bound to act for the best interests of the children under its charge. If a boy shows any special aptitude for any trade and an inclination to become something more than a farm laborer or a lower grade mechanic it is our intention to give him such special advantages as our facilities afford, and after suitable preparation procure for him a situation where he can work up to something higher, and if he has talents to become a skilled artisan, a draughtsman, or a civil engineer we do not discourage him because of his humble origin or the unfavorable conditions which surrounded his cradle.

The number of boys who have received instruction in the green-house, the workshop and the farm is 67, being all in the institution over nine years of age. Ten boys at a time have been employed in the green-house, working about four hours a day each. Good florists are in demand, and boys who have been for any length of time under the tuition of the competent florist in our employ have no trouble in finding good situations.

Three boys have been placed in such situations the past year.

The workshop or tool-house is on the first floor of the new building, about 45 feet long by 25 wide, and is fitted up with benches suitable for a class of ten pupils at one time, and complete sets of carpenters' tools and other conveniences. On the 1st of April this branch was placed in charge of Mr. A. W. Chase, a competent technical instructor, at a salary of \$600 per annum and board.

Mr. Chase made a report to the industrial committee, showing the course of study and the work performed. Under his instruction the children made good progress.

Special attention was paid to drawing. Upon his retiring soon after the close of the fiscal year, the vacancy occasioned thereby was filled by the appointment of Mr. Simmons, a practical carpenter, at the same compensation, that is, \$50 per month and board.

The expenses of the greenhouse, including the salary of the florist, \$300, amounted to \$484.02. The receipts from the sale of the flowers and plants amounted to \$236.84, making the net cost of maintaining this branch of industrial training \$247.18.

On the night of December 1, 1887, a fire occurred in the greenhouse, which did considerable damage before it was subdued. The house was immediately repaired, but the plants were nearly all destroyed. The expense occasioned by the accident accounts for a great part of the deficiency.

The expenses connected with the carpenter's shop were \$1,141.97. The receipts were \$534.27, of which \$360.92 were for stakes sold to the parking commission, the net cost of this branch of industrial tuition being \$607.70.

The total excess of expenditures over receipts on both the greenhouse and carpenter-shop was \$854.88, a little less than last year.

It is expected that the greenhouse will nearly, if not quite, pay expenses for the current year.

Instruction in farm-work and gardening has continued to be a prominent feature in the line of industrial training. All the boys of suitable age have done more or less work on the farm and in the garden under charge of the superintendent. Whether the assistance rendered has been of any value, as far as a saving of labor and expense is concerned, or not, they have undoubtedly received valuable instruction in a useful and practical branch of industry.

The following is a statement of the articles raised during the year, most of which have been consumed upon the place:

Strawberries	quarts..	400	Onions	bushels..	40
Raspberries	do....	320	Lima beans	do....	10
Blackberries	do....	250	Beets	do....	50
Green corn	dozen..	500	Tomatoes	do....	100
Green peas	bushels..	25	Cabbages	heads..	1,000
Potatoes	do....	50	Hay	tons..	4
Lettuce	heads..	5,000	Corn fodder	do....	10
Turnips	bushels..	20	Milk	gallons..	3,000
Estimated value of which is					\$1,182
Estimated cost, about					600

ESTIMATES.

The Commissioners of the District have been requested to ask Congress for the following appropriations for the year expiring June 30, 1890:

For maintenance of inmates, including salaries	t \$12,000
For promotion of industries.....	1,000
For steam-heating apparatus.....	3,000
Total.....	16,000

It is apparent that such an appropriation is necessary.

Two additional employés will be required at an expense of about \$500.

Estimating for one hundred wards, at \$110 each, this item would be.....	\$11,000
To which add for additional employés.....	500
This amounts to.....	11,500

Leaving a balance of \$500 for repairs and contingencies.

The item for industries is necessary for increase of plant and to enable the committee to carry out adopted plans for improvement, imparting rudimentary education in industries. This is one of the most important branches of our work, fitting the wards for the duties of life, so that they can be self-supporting, thus preventing them from gravitating towards the pauper class. No expenditure can be better made for the benefit of the citizens of the Republic.

The item for steam-heating apparatus is imperatively required. During the winter 32 fires are kept burning on the premises, and they are ever present sources of danger. If fed from one supply, it is manifest risk of accident would disappear. In all well-ordered establishments of a similar character the employment of stoves and open-fire places has been abandoned. In premises occupied by children every precaution ought to be taken to prevent accidents by fire. Added to this, steam-heating, when the plant is once paid for, is the more economical.

A regulated degree of heat can be sustained, which is of great benefit from a sanitary stand-point.

EXPENDITURES.

The items of receipt and expenditure are exhibited in detail in the accompanying report of the treasurer. All expenditures from appropriations have to be passed upon by the accounting officers of the United States Treasury.

ADDENDA.

This report includes the transactions of the institution up to June 30, 1888, the close of the fiscal year. Since then the work has gone on in the usual manner, except that there have been some changes in the board of managers.

By death we lost one of our most valuable and esteemed colleagues, Mr. W. W. Curtis, who for many years served as treasurer of the board. Beloved as a personal friend, esteemed by all who had the fortune to be associated with him in private or official relations, the board at a special meeting expressed feelings of regret at the loss occasioned by his demise and deem it proper and appropriate to record herein their loving tribute to his worth and integrity, and to gratefully acknowledge the many valuable services he rendered to the Home Industrial School.

Prof. B. T. Janney was elected treasurer in place of our deceased member.

Mr. Charles E. Foster, for many years president of the board, tendered his resignation of the office at a recent meeting.

Respectfully submitted.

LEWIS ABRAHAM,
Mrs. H. W. BLACKFORD,
Committee.

EXHIBIT A.—*Admitted.*

Name.	Where from.	Name.	Where from.
Henry Maxwell	Dist. Columbia.	Joseph Burns	Dist. Columbia.
Harry Dodge	Do.	Bessie Brooks	Do.
James Moriarty	Do.	Thomas Peacock	Virginia.
Percy Clupley	Do.	Augustine Krone	New York.
Joseph McGrath	Tennessee.	George Spalding	Virginia.
Paul Jones		George Herrell	Dist. Columbia.
Paul Wilcox	Oregon.	Benjamin Roach	Virginia.
Fanchon Robey	South Carolina.	Ricardo Russell	Dist. Columbia.
Albert Mackay	Do.	Edward Rowe	
Thomas Walker	Dist. Columbia.	Charles Swearingen	South Carolina.
Richard Walker	Do.	Sarah Swearingen	Do.
Fred Nephew	Do.	Vernon Swearingen	Do.
Lena Roach	Virginia.	Alice Benson	Dist. Columbia.
Nellie Pattison		William Weiss	Do.
Albert Smith	California.	Arthur Weiss	Do.
Leonard Smith	Do.	Richard Sebastian	Do.
Robert Milligan		Benjamin Mahew	Virginia.
Oliver Benson	Dist. Columbia.	James F. West	
Bessie Choy	Do.	John Haddaway	
Laura Choy	Do.	John Jones	Dist. Columbia.
Edward Smith	Do.	Annie Jones	Do.
William Smith	Do.	O iver Craig	Do.
Allie Thompson		Robert Craig	Do.
Lydia Collins	Do.	Benjamin Craig	Do.
Maggie Collins	Do.	Rufus Nephew	Do.

EXHIBIT B.—*Discharged.*

Names.	Born.	Placed.
Maud Dorsey	District of Columbia.	Father and mother reunited, and requested children.
Olive Dorsey	do	Same reason as preceding.
Mary Tasker	do	Returned to parents, by request.
Henry Dodge	do	Absconded.
Jessie Crowder	Maryland	Returned to parents.
Gertrude Crowder	do	Do.
Percy Chipley	District of Columbia.	Absconded.
Joseph McGrath	Tennessee	Do.
Paul Jones		Absconded; placed in Reform School.
William Reynolds	District of Columbia.	Placed with Mr. Thompson, watchmaker, Georgetown, D. C.
Harry Mockabee	do	Placed with Thomas Folks, Fourteenth and S. N. W., Washington.
Julian Castell	do	Returned to mother.
Edgar Castell	do	Do.
Albert Mackay	South Carolina	Placed in store by Mrs. Barlow.
Fred Nephew	District of Columbia.	Absconded.
Rufus Nephew	do	Do.
Martha Thompson	do	Placed with married sister.
Edward Simpson	do	Placed with Mr. Wolter, florist, Mount Pleasant.
Pierre Paul He	France	Returned to parents.
James Moriarty		Returned by request to father.
Della Roach	Virginia	Placed as a domestic by mother.
Frank Norcom	District of Columbia.	Discharged for having loaded revolver.
George Harrell	do	Father was required to remove child, being found able to support him.
Paul Wilcox	Oregon	Apprenticed to Somerville & Sons.
Lucia Taylor	Virginia	Placed with Mrs. M. A. Hall, Rockville, Md.

EXHIBIT B.—*Discharged*—Continued.

Names.	Born.	Placed.
Charles Swearinger ..	South Carolina	Father and mother, having been separated, came to live together and took children.
Sarah Swearinger	do	
Vernon Swearinger ..	do	
William Vernemon ..	District of Columbia }	Mother provided for them by marrying.
Mary Vernemon	do	
John Shine	do	Apprenticed to Morgan, florist.
William Waters	do	Father married and was required to take children.
John Waters	do	
Frank Rush	do	A place found for him by his father.
Henry Mundt	do	Placed with James Heslop, Annapolis Junction, Md.
Bertie Mathews	do	Placed with Mrs. Campbell, 426 Eleventh street, S. E.
Ruby Mathews	do	Placed with T. A. Jenkins, Springvale, Fairfax County, Va.
Clara Norcom	do	Taken by mother by permission.
John Haddaway	do	Placed with Mr. Torreyson, Falls Church, Va.
James F. West	do	Absconded.
Harry Lewis	do	Apprenticed to Pierce, florist, Anacostia, D. C.
Benjamin Sweeney ..	Maryland	Returned to mother by request.
Edith Sweeney	do	
John Jones	District of Columbia..	Absconded.
Augustine Krone	New York	Do.

EXHIBIT C.

At first glance the number returned to parents seems large in proportion to the whole number discharged.

But we are as careful as possible to release only to worthy parents, whose inability to care for the child arose from temporary stress of circumstances, or who can now with the child's assistance make a comfortable living.

We believe, in such cases, the child's place is with the parent, fostering, not only the natural filial relation, but the feeling of self-respect from the fact that he must help support the family.

An important and valuable part of our work consists in preparing children by mental, moral, and intellectual training, to be thus useful to parents first and afterward to themselves and society.

* But of those who have no suitable home of their own to go to, and for whom we have found homes among strangers, we hear excellent reports, and it is gratifying to know that a good majority of them turn out well.

Three during the past year have been placed with florists and all are reported as doing well. Another boy, who has been several years with his present employer, gets \$25 a month and board. Another boy has finished his apprenticeship as a shoemaker, and gets \$10 a week.

A boy, 16, born crippled in both legs, whom we kept two years in surgical institute in Philadelphia before he could walk, has been one year with a watch-maker and is getting \$3.50 a week. His employer says the boy will make an excellent mechanic and earn large wages in time.

Several girls have been placed in houses as companions, or domestics, from whom excellent reports are received. One boy has gone to Colorado, to be a "cow-boy," and a very complimentary letter was received from his employer the other day.

The following is extracted from minutes kept at the committee-room, by Mrs. Barlow :

Lucy Taylor, sent to Mrs. Dowden, Rockville, Montgomery County, Md. Has an excellent home, with an estimable woman, is sent to church and school, also taught how to work.

Henry Mundt, living with Mr. James Hoslop, Howard County, Md. This employer keeps a country store and a small dairy, and speaks in the highest terms of the boy.

Berthe Matthews, living with Mr. William Campbell, lumber-merchant, 426 Eleventh street, southeast, learning to sew and keep house. So taken in with the family, and has an excellent home.

Paul Wilcox, learning a trade with Mr. Somerville, and doing well.

Rosa Anderson, was sent to Mrs. James Byas, Upper Marlborough, Md. She is learning to keep house and dairy work.

James Taylor, was sent to Mr. N. Ball, who has a cattle-ranch at Alamoso, Colo. He writes me a good account of the boy.

REPORT OF THE TREASURER.

WASHINGTON, D. C., *October 22, 1888.*

LADIES AND GENTLEMEN: As treasurer of the Industrial Home School, I beg to submit my annual report of the condition of the finances of the institution at the close of the fiscal year ending June 30, 1888, and of the receipts and expenditures during that year, as follows, viz:

RECEIPTS.

Cash in Second National Bank July 1, 1887	\$1,280.42
Cash in United States Treasury July 1, 1887	1,636.50
Amount Congressional appropriation	10,000.00
Amount received from District Commissioners, maintenance, June, 1887..	147.00
Amount received from District Commissioners, tree-box fund	360.92
Amount received from sale of strawberries and plants prior to June 30, 1888	122.85
Amount received from sale of flowers, plants, etc., including shop work and material prior to June 30, 1888	388.50
Amount received from donations	5.00
Deposit of F. A. Law to meet overdraft on appropriation for fiscal year of 1886-'87	.72
Total	13,941.91

EXPENDITURES.

Total expenditures as shown by Schedule A, herewith	12,504.42
Balance on hand July 1, 1888	1,437.49

Of this balance the sum of \$147.01 was in the Second National Bank and the remainder, \$1,290.48, was in the United States Treasury.

There were outstanding on July 1, 1888, bills to the amount of \$1,537.51, as shown by the accompanying Schedule B.

After paying the indebtedness for the year it will be seen that there was an apparent deficiency of \$100.02, but this apparent deficiency was quite covered by receipts from the sale of flowers and plants prior to June 30, 1888, the amount of which has since come into my hands.

Very respectfully,

FRANK A. LAW,
Accountant and Clerk for W. W. Curtis, deceased,
late Treasurer of Industrial Home School.

To the Board of Managers of the Industrial Home School.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 177

SCHEDULE A.—Disbursements by treasurer of Industrial Home School, District of Columbia, during the fiscal year ending June 30, 1888.

PAID FROM UNITED STATES TREASURY.

[Bills outstanding June 30, 1887.]

No. of voucher.	To whom paid.	On what account.	Amount.
108	J. Edward Libbey	Lumber, May, 1887.....	\$66.77
109	do	Lumber, June, 1887	134.37
110	G. W. Offutt & Bro	Groceries (balance January and February, 1887) ..	1.60
111	do	Groceries, April, 1887.....	98.33
112	do	Groceries, May, 1887.....	81.60
113	do	Groceries, June, 1887.....	79.06
114	do	Feed, April, 1887.....	4.49
115	do	Feed, May, 1887.....	29.19
116	Luttrell & Wine.....	Dry goods, April, May, and June, 1887	73.61
117	Buckey & Marbury	Hardware, April to June, 1887	23.31
118	Fred. Stohlman	Bread, March, 1887.....	106.89
119	do	Bread, April, 1887	98.35
120	do	Bread, June, 1887	76.65
121	do	Bread, May, 1887.....	87.99
122	Mrs. R. Brace.....	Medicine, April to June, 1887.....	41.61
123	Samuel S. Shedd	Grates, etc., November, 1886	32.95
124	James K. Probey	Fixing tires, etc., March to June, 1887.....	19.00
125	Troy Laundry Company.....	Laundry outfit, June, 1887.....	315.04
126	Margaret Cole	Tailoring, June, 1887	1.50
127	James L. Donaldson	Stakes, June, 1887.....	5.00
128	Washington Watts	Whitewash, June, 1887	13.25
129	Woodward & Lothrop.....	Shirt-waists, May, 1887.....	5.00
130	R. D. Weaver & Bro	Meats, March, 1887	56.58
131	do	Meats, April, 1887	50.28
132	do	Meats, May, 1887.....	53.40
133	do	Meats, June, 1887.....	49.32
134	John Lynch	Smithing, April, May, and June, 1887.....	8.50
135	John W. Coon	Papering, etc., May and June, 1887	19.50
136	Mrs. H. W. Blackford.....	Stamps and cards, June, 1887.....	2.88
137	Johnston & Libbey	Lime, April to June, 1887.....	1.20

[Bills incurred since July 1, 1887.]

1	W. S. Stockbridge	Pay-roll, August, 1887.....	317.00
2	Joseph Simmons	Carpenter, August, 1887.....	50.00
3	Henry Wetzel	Smithing, July and August, 1887.....	5.10
4	B. Nordlinger	Shoes, July, 1887	31.40
5	do	Shoes, August, 1887	29.90
6	M. Wilson	Butter and hay, August, 1887	57.38
7	W. S. Stockbridge	Pay-roll, September, 1887.....	280.00
8	Joseph Simmons	Carpenter, September, 1887.....	50.00
9	P. Hiser & Sons	Flower-pots, September, 1887.....	13.50
10	Luttrell & Wine.....	Dry goods, September and October, 1887.....	83.24
11	G. W. Offutt & Bro.....	Groceries, July, 1887	62.04
12	do	Groceries, August, 1887.....	82.15
13	do	Groceries, September, 1887	79.32
14	do	Feed, August, 1887.....	11.80
15	do	Feed, September, 1887.....	35.77
16	Fred. Stohlman	Bread, July, 1887	79.17
17	do	Bread, August, 1887.....	91.14
18	do	Bread, September, 1887 ..	118.93
19	Mrs. Russell Brace	Medicine, July and August, 1887.....	29.38
20	J. Edward Libbey	Lumber, July, 1887.....	43.90
21	do	Lumber, August, 1887.....	89.06
22	do	Lumber, September, 1887.....	34.87
23	W. S. Stockbridge	Pay-roll, October, 1887	292.00
24	Joseph Simmons	Carpenter, October, 1887	50.00
25	Henry Wetzel	Smithing, September and October, 1887	4.35
26	S. C. Gregory	Cooking utensils, September, 1887.....	8.25
27	Alex. Tennant	Plumbing, July, 1887	72.72
28	do	Plumbing, August, 1887	63.38
29	do	Plumbing, September, 1887.....	101.61
30	B. Nordlinger	Shoes, September, 1887	39.05
31	do	Shoes, October, 1887	55.20
32	James K. Probey	Smithing, September, 1887	18.00
33	S. Patrick	Soap stock, November, 1887.....	12.00
34	Fred. Stohlman	Bread, October, 1887	97.93
35	B. T. Janney	Butter, November, 1887.....	8.70
36	W. S. Stockbridge	Pay-roll, November, 1887.....	288.40
37	Joseph Simmons	Carpenter, November, 1887	50.00

178 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

SCHEDULE A.—Disbursements by treasurer of Industrial Home School, etc.—Continued.

PAID FROM UNITED STATES TREASURY—Continued.

[Bills incurred since July 1, 1887—Continued.]

No. of voucher.	To whom paid.	On what account.	Amount.
38	F. A. Law.....	Clerk to treasurer, October, November, and December, 1887.	\$25.00
39	S. Patrick.....	Soap stock, December, 1887.....	46.31
40	J. M. Hammer.....	Flower-pots, December, 1887.....	20.00
41	Thomas Goodrich.....	Building fence, December, 1887.....	14.25
42	M. Wilson.....	Hay, wood, and butter, October, November, and December, 1887.	60.54
43	Joseph Simmons.....	Carpenter, December, 1887.....	50.00
44	W. S. Stockbridge.....	Pay-roll, December, 1887.....	292.00
45	Thomas & Hune.....	Rye and straw, December, 1887.....	9.00
46	Margaret Cole.....	Sewing, December, 1887.....	2.75
47	J. Edward Libbey.....	Lumber, October, 1887.....	25.51
48	Peter Henderson & Co.....	Flower seeds, &c., September, 1887.....	5.37
49	Charles Becker.....	Paints, etc., July to December, 1887.....	85.59
50	William A. Dix.....	Harness and repairs, July to December, inclusive, 1887.	8.30
51	M. C. Mitchell.....	Plumbers' supplies, July to December, inclusive, 1887.	199.26
52	Buckey & Marbury.....	Hardware, November and December, 1887.....	34.39
53	G. W. Offutt & Bro.....	Groceries, October, 1887.....	114.87
54	do.....	Groceries, November, 1887.....	98.40
55	do.....	Groceries, December, 1887.....	83.31
56	do.....	Feed, October, 1887.....	42.82
57	do.....	Feed, November, 1887.....	32.38
58	do.....	Feed, December, 1887.....	35.59
59	Luttrell & Wine.....	Dry goods, October, November, and December, 1887.	81.41
60	J. Edward Libbey.....	Lumber, November, 1887.....	55.34
61	do.....	Lumber, December, 1887.....	37.61
62	R. D. Weaver & Co.....	Meats, July, 1887.....	41.02
63	do.....	Meats, August, 1887.....	54.20
64	do.....	Meats, September, 1887.....	54.50
65	do.....	Meats, October, 1887.....	63.80
66	do.....	Meats, November, 1887.....	69.05
67	do.....	Meats, December, 1887.....	50.50
68	B. Nordlinger.....	Shoes, November, 1887.....	40.00
69	do.....	Shoes, December, 1887.....	72.75
70	W. Nordlinger.....	Clothes, July to November, 1887.....	51.16
71	Charles Fischer.....	Shoes, October, 1887.....	8.00
72	Mrs. R. Brace.....	Medicine, September to December, 1887.....	45.13
73	Mrs. J. W. Douglas.....	Stationery, etc., December, 1887.....	2.46
74	W. S. Stockbridge.....	Pay-roll, January, 1888.....	287.00
75	Joseph Simmons.....	Carpenter, January, 1888.....	50.00
76	Mayfield & Hieston.....	Coal, August to December, inclusive, 1887.....	412.55
77	John Lynch.....	Smithing, July to December, 1887.....	9.25
78	Richard Shipman.....	1 ton straw, February, 1888.....	12.00
79	Fred. Stohlman.....	Bread, November, 1887.....	100.24
80	do.....	Bread, December, 1887.....	96.07
81	John W. Coon.....	Wall paper, August and October, 1887.....	31.20
82	Henry Wetzel.....	Smithing, November and January, 1888.....	2.85
83	Public Printer.....	Printing 500 reports, 1887.....	11.97
84	A. Tallent.....	Upholstering sofa, February, 1888.....	6.50
85	Joseph Simmons.....	Carpenter, February, 1888.....	50.00
86	W. S. Stockbridge.....	Pay-roll, February, 1888.....	287.00
87	George T. Fritch & Son.....	Brooms, October, 1887.....	5.00
88	C. C. Pursell.....	Stationery, October, 1887.....	9.30
89	Michael Wilson.....	Hay, March, 1888.....	29.46
90	J. T. Payne.....	Boots, etc., January and February, 1888.....	32.10
91	W. H. Tenney & Son.....	Feed, etc., July, 1887.....	16.67
92	Luttrell & Wine.....	Dry goods, January, 1888.....	61.69
93	J. G. & J. M. Waters.....	Cement, August and November, 1887.....	4.75
94	Carroll Daly.....	Manure, March, 1888.....	22.50
95	Fred. Stohlman.....	Bread, January, 1888.....	102.48
96	Kentfel & Esser.....	Drawing instruments, March, 1888.....	39.34
97	William H. Ernest.....	Flower pots, March, 1888.....	22.50
98	W. S. Stockbridge.....	Pay-roll, March, 1888.....	281.00
99	A. W. Chase.....	Two-thirds month's wages as teacher, 1888.....	33.33
100	Luttrell & Wine.....	Dry goods, March and April, 1888.....	85.14
101	J. T. Payne.....	Boots, etc., March, 1888.....	7.25
102	G. W. Offutt & Bro.....	Groceries, February, 1888.....	18.08
103	do.....	Groceries, March, 1888.....	82.29
104	do.....	Groceries, January, 1888.....	133.21
105	do.....	Feed, January, 1888.....	22.10
106	do.....	Feed, February, 1888.....	20.25
107	do.....	Feed, March, 1888.....	20.49

SCHEDULE A.—Disbursements by treasurer of Industrial Home School, etc.—Continued.

PAID FROM UNITED STATES TREASURY—Continued.

[Bills incurred since July 1, 1887—Continued.]

No. of voucher.	To whom paid.	On what account.	Amount.
108	Mrs. Russell Brace.....	Medicine, January, February, and March, 1888 ..	\$28.55
109	B. T. Janney.....	Butter, January and March, 1888 ..	14.70
110	Buckey & Marbury.....	Hardware, January, February, and March, 1888..	22.58
111	Carroll Daly.....	Manure, April 21, 1888.....	30.00
112	William Lomax.....	Hay, April 25, 1888 ..	17.87
113	Troy L. Mch. Co. (lim) ..	Caus. soda, December, 1887.....	4.00
114	B. Nordlinger.....	Shoes, January, 1888.....	56.77
115	do.....	Shoes, February, 1888.....	19.30
116	do.....	Shoes, March, 1888.....	42.30
117	do.....	Shoes, April, 1888.....	58.65
118	A. W. Chase.....	Teacher, April, 1888 ..	50.00
119	R. D. Weaver & Bros.....	Meats, January, 1888 ..	54.23
120	do.....	Meats, February, 1888 ..	53.80
121	do.....	Meats, March, 1888 ..	62.17
122	do.....	Meats, April, 1888 ..	55.36
123	Charles Fisher.....	Brace and repairs, January, 1888 ..	6.50
124	Thomas Somerville & Son ..	Machinery, May, 1888 ..	52.30
125	L. H. Schneiders' Sons ..	Hardware, July and September, 1887 ..	13.98
126	Sarah A. Smith.....	Wood, May, 1888 ..	14.00
127	F. A. Law.....	Clerk to treasurer, March 31, 1888.....	25.00
128	Mrs. Russell Brace.....	Medicines, April, 1888.....	6.15
129	Charles Becker.....	Paints, January, February, and March, 1888 ..	13.92
130	Fred. Stohlman.....	Bread, February, 1888 ..	106.47
131	do.....	Bread, March, 1888.....	111.23
132	do.....	Bread, April, 1888 ..	100.66
133	Luttrell & Wine.....	Dry goods, May, 1888 ..	29.70
134	W. S. Stockbridge ..	Pay-roll, May, 1888.....	292.00
135	A. W. Chase.....	Teacher, May, 1888.....	50.00
136	G. T. Dunlop.....	Seed, etc., February, March, and April, 1888....	35.11
137	Julius Lansburgh ..	Carpets, September, 1887 ..	16.00
138	Mrs. H. W. Blackford.....	Postage, October, 1887, to May 26, 1888.....	5.15
139	Peter Henderson & Co.....	Seeds, December 13, 1887.....	6.30

PAID FROM SECOND NATIONAL BANK.

1	H. I. Gregory ..	Range, June, 1887.....	\$120.00
2	J. T. Payne, agent ..	Repairing shoes, March, 1887.....	5.20
3	M. Silverberg & Co.....	Fireworks, July, 1886 ..	14.95
4	do.....	Fireworks, July 2, 1887.....	15.00
4½	W. S. Stockbridge ..	Market stall rent, laborers, etc., May, 1887.....	18.08
5	do.....	Market stall rent, laborers' pay, etc., July, 1887..	53.46
6	Charles Baum.....	Merchandise, July, 1887 ..	2.34
7	W. S. Stockbridge.....	Pay-roll, July, 1887 ..	320.00
8	Bon Marche.....	Millinery, May 13, 1887.....	1.73
9	Lycett Bindery.....	Binding, May 11, 1887.....	1.60
10	Joseph Simmons.....	Carpenter, July, 1887 ..	50.00
11	W. Nordlinger.....	Clothes, May and June, 1887.....	42.81
12	William H. Barker.....	Plastering partition in new building, August, 1887..	18.00
13	Charles Becker.....	Medicine, August, 1886, and February 25, 1887....	6.75
14	K. S. Proctor.....	Six weeks' teaching, July and August, 1887.....	30.00
15	Dr. J. F. R. Appleby ..	Medical attendance, July, 1886, to July, 1887.....	62.00
16	W. H. Tenney & Sons.....	Feed, etc., April, May and June, 1887.....	21.55
17	J. R. Shanks.....	Painting and graining old building, August, 1887..	40.00
18	Beckham & Middleton.....	Repairs to machinery, April and June, 1886.....	133.80
19	Louis Schmid & Sons.....	Florists' supplies, June 30, 1887.....	19.10
20	Henry Eberbach.....	Tuning organ, April, 1887.....	2.00
21	Kate S. Proctor.....	Teaching school three weeks ..	15.00
22	B. Nordlinger.....	Shoes, May, 1887 ..	37.85
23	do.....	Shoes, June, 1887 ..	43.40
24	Mayfield & Heiston.....	Coal, January to June, 1887.....	235.25
25	M. C. Mitchell.....	Kitchen utensils, February to May, 1887.....	14.38
26	A. K. Williams.....	Stationery, April, 1886, to August 20, 1887.....	9.50
27	Luttrell & Wine.....	Dry goods, June, July and August, 1887.....	65.67
28	J. Edwards, sr.....	Stone, August 12, 1887 ..	12.10
29	Thomas Somerville & Son ..	Repairs to steam pump, October 28, 1886.....	4.60
30	Michael Wilson.....	Twenty-seven pounds butter at 25 cents, June 18, 1887..	6.75
31	D. F. Mertz, agent ..	Smithing, August 30, 1887 ..	7.10
32	M. W. Beveridge.....	Houseware, October and November, 1886.....	25.44
33	Buckey & Marbury.....	Hardware, July, August, and September, 1887..	38.14
34	F. A. Law.....	Clerk to treasurer, fourth quarter, 1886, 1887....	25.00

180 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

SCHEDULE A.—Disbursements by treasurer of Industrial Home School, etc.—Continued.

PAID FROM SECOND NATIONAL BANK—Continued.

No. of voucher	To whom paid.	On what account.	Amount.
35	Alexander Tennant	Flour, etc., March to April, 1887	\$43.00
36	do	Flour, etc., May to June, 1887	23.70
37	do	Flour, etc., June to July, 1887	43.29
42	Archibald J. & Josephine	Insurance on Mach. brick building	12.50
43	William A. Dix	Harness, etc., February and April, 1887	3.25
44	W. S. Stoddard	Saddles, September to December (inclusive), 1887	15.48
45	W. H. T. & S.	Flour, etc., February to April, 1887	41.65
46	M. W. B.	Glass, etc., January to September, 1887	59.76
47	A. T. Marlow	Hay, January, 1888	23.92
48	Henry L.	Repairs to organ, November, 1887	3.00
49	J. G. & J. M. Waters	Cement, December, 1887; May, June, 1887	15.00
50	Joseph Harris Seed Company	Seed, February, April, 1888	23.80
51	W. S. Stoddard	Patrol, April, 1888	292.00
52	do	Saddles, January to May, 1888	18.06
53	G. T. Dunlop	Seed, etc., July, 1886, to June 14, 1887	21.02
Total			12,504.42

SCHEDULE B.—Due against Industrial Home School, District of Columbia, in hands of treasurer, unpaid, June 30, 1888.

Name	On what account.	Amount.
A. W. Chase	Industrial teacher, June, 1888	\$50.00
Pay roll	June, 1888	292.00
Offutt & Bro.	Groceries and feed	301.28
Frank A. Law	Clerk to treasurer to June 30, 1888	25.00
Henry Fraze	Hats	4.50
Singer Machine Company		2.09
Johnston & Janney		2.35
J. Edward Libbey	Lumber	4.33
do	do	5.96
do	do	7.54
Beckham & Middleton		30.33
R. Bersford	Printing abstracts of disbursements	5.75
S. S. Shedd & Bro.		11.25
M. C. Mitchell	House ware	2.70
Mayfield & Henson	Coal	193.55
John L. Lench	Horseshoeing	5.50
Becker & Sotherton	Seeds, etc.	8.35
H. I. Adler	Hardware	9.15
B. T. Janney	Butter	16.52
W. Nordlinger	Clothing	21.25
Fred Stollman	Bread, May, 1888	95.19
do	Bread, June, 1888	96.17
R. H. Stinemetz & Son	Hats	12.50
do	do	13.00
B. T. Janney	Butter, June 25, 1888	7.50
William A. Dix	Harness, etc.	5.50
Mrs. Russell Bruce	Medicines, May and June, 1888	8.55
B. Nordlinger	Shoes, May, 1888	42.70
do	Shoes, June, 1888	39.35
Lattrell & Wine	Dry goods, June, 1888	23.40
Dr. J. R. F. Appleby	Physician for fiscal year	40.00
R. D. Weaver & Bros	Meats, May, 1888	60.50
do	Meats, June, 1888	58.46
Storm & Sherwood	Milk, May and June, 1888	20.90
M. J. Adler	Farm implements, etc.	4.94
A. K. Williams	Stationery, September 1887, to March 30, 1888	9.45
Total		1,537.51

REPORT OF THE GRAND JURY.

[In the supreme court of the District of Columbia. Holding a criminal term. June term, A. D. 1887.
Filed December 5, 1887.]

The Hon. MARTIN V. MONTGOMERY,
Presiding Justice :

The grand jury having visited many of the public institutions of the District, including the Industrial Home School, would respectfully report, regarding that institution, as follows :

The Industrial Home School we found most admirably conducted. The food, though plain, was of good quality ; the dormitories, sick-room, laundry, and kitchen were scrupulously clean and in good order. The industrial department gave evidence of competent ability, and the children appeared cheerful and contented. The present capacity of the school is one hundred children. The importance of this work to this unfortunate class in our community can not fail to commend itself to every citizen, and should receive a very liberal support from Congress.

The limited capacity of the Industrial Home School and the good work it has accomplished but emphasizes the imperative necessity for a much larger school of the kind, where the thousands of poor and dependent children of this community can acquire trades and other useful vocations. Many of such children are at present in the Reform School and Poor-House, and boys of tender years are inmates of the jail because we have no place where they can be redeemed from a life of misery and crime.

We therefore recommend that Congress be asked to take such action as will establish an industrial and reform school for both girls and boys that shall be adequate to meet the necessities of the District of Columbia.

The published reports of the committee of the board of trustees of public schools and of the Industrial Home School are respectfully submitted as a part of this report on schools.

C. H. FICKLING,
Foreman.

NOVEMBER 30, 1888.

DEAR SIRs: I herewith transmit the following supplement to the annual report of the Industrial Home School of the District of Columbia, giving the amended article of incorporation under which it is established, the by-laws and rules by which it is governed, a list of the officers and members of the board of managers and of the several committees having charge of important matters connected with the institution.

Very respectfully submitted.

WILLIAM B. GURLEY,
President Industrial Home School.

The Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

AMENDED ARTICLE OF INCORPORATION.

To all persons whom it may concern, know ye :

That A. M. Gangewer, A. B. Atkins, John Hitz, J. S. Blackford, A. N. Zevely, M. H. Doolittle, Thomas Taylor, W. W. Dugan, M. V. Buckey, and Walter S. Cox, have, on the 12th day of March, A. D. 1872, under and by virtue of authority granted by an act of Congress entitled "An act to provide for the creation of corporations in the

District of Columbia by general law," approved May 5, 1870, have agreed to amend their union as a body corporate, recorded in liber Deeds of Incorporation, District of Columbia, folio 185, as follows, to wit:

To be known and designated under the name and style of the Industrial Home School of the District of Columbia, to consist of ten managers for the coming year, under which name and style they and their successors will devote themselves, and for the performance of all the duties and enjoyments of all rights and privileges usually performed and enjoyed by legally incorporated companies.

Also to sue and be sued, implead and be impleaded, to receive and enjoy property, real, personal, and mixed, and the same to receive and convey by gift, grant, bargain, or otherwise, and enjoy all the rights, privileges, and protections granted and guaranteed by and under the provisions of the above-recited act of Congress; and

They further agree and bind themselves and their successors forever to respect and be governed by the rules and regulations prescribed by said act of Congress.

In testimony whereof we have hereunto set our hands and seals the day and year first above written.

A. M. GANGEWER.
A. B. ATKINS.
JOHN HITZ.
J. S. BLACKFORD.
A. N. ZEVELY.
M. H. DOOLITTLE.
THOMAS TAYLOR.
W. W. DUNCAN.
M. V. BUCKEY.
WALTER S. COX.

DISTRICT OF COLUMBIA, *County of Washington*, ss:

I, Thomas J. Myers, a notary public in and for the county and District aforesaid, do hereby certify that A. M. Gangewer, A. B. Atkins, John Hitz, J. S. Blackford, A. N. Zevely, M. H. Doolittle, Thomas Taylor, W. W. Duncan, M. V. Buckey, and Walter S. Cox personally appeared before me in the District and county aforesaid, they being the parties to a certain instrument of writing dated on the 12th day of March, A. D. 1872, and hereto annexed, the said A. M. Gangewer, A. B. Atkins, John Hitz, J. S. Blackford, A. N. Zevely, M. H. Doolittle, Thomas Taylor, W. W. Duncan, M. V. Buckey, and Walter S. Cox being personally well known to me as the persons who executed the said instrument of writing and acknowledged the signing and sealing as their act and deed.

Given under my hand and notarial seal this 12th day of March, 1872.

THOMAS J. MYERS,
Notary Public.

Received for record March 13, 1872, and recorded in liber Deeds of Incorporation, D. C., folio 193. Examined by Wolfe, recorder.

BY-LAWS ADOPTED BY THE ASSOCIATION NOVEMBER 5, 1888.

NAME OF ASSOCIATION.

ART. 1. This association shall be known as the Industrial Home School of the District of Columbia.

OBJECT OF ASSOCIATION.

ART. 2. The object of the association is to provide a home for friendless and neglected children of both sexes, and furnish them instruction in some branches of industry in connection with ordinary school duties, with a view of making them self-sustaining upon arriving at years of maturity.

MEMBERSHIP.

ART. 3. Any person may become a member of this association by vote of a majority of the members present at any regular meeting of the association or of the board of managers, on payment of an annual fee of one dollar; upon payment of which they shall be furnished with a certificate of membership.

ARREARS.

ART. 4. Any person failing to pay the annual dues shall lose his right to vote until his dues are paid.

OFFICERS.

ART. 5. The officers of the association shall consist of a president, one or more vice-presidents, a secretary, and a treasurer, who shall be officers and *ex officio* members of the board of managers, and who shall hold their offices, respectively, until their successors are elected.

BOARD OF MANAGERS.

ART. 6. A board of managers shall have general supervision of all matters connected with the institution and consist of fifteen members elected by the association, besides the officers. The board may elect additional members, not exceeding five, if in its discretion it is deemed advisable.

PRESIDENT.

ART. 7. The president shall preside at all meetings of the association and the board of managers and perform such other duties as belong to his office.

VICE-PRESIDENT.

ART. 8. In the absence of the president his duties shall be performed by a vice-president.

SECRETARY.

ART. 9. The secretary shall keep the record of the proceedings of the meetings of the association and of the board of managers and perform such other duties as the board or association may direct.

TREASURER.

ART. 10. The treasurer shall keep the accounts and have custody of the funds of the association. He shall disburse the money of the association on bills and vouchers attested by the superintendent when approved by a member of the finance committee and the president, and shall make an annual report to the association and monthly reports to the board of managers.

ANNUAL MEETING.

ART. 11. The annual meeting of the association shall be held on the last Tuesday in October, at which the officers and other members of the board of managers shall be elected.

ANNUAL REPORTS.

ART. 12. The board of managers, the treasurer, and superintendent shall present annual reports at the annual meeting of the association.

MEETINGS OF THE BOARD.

ART. 13. The board of managers shall hold regular monthly meetings for the transaction of the business of the association.

MEETINGS—EMPLOYÉS.

ART. 14. No employé of the association shall be a member of the board or attend its meetings, except upon an invitation of the board.

SPECIAL MEETINGS.

ART. 15. The president shall call special meetings of the board of managers or association when he deems it necessary, or such meetings may be called by written request of five members of the board.

NOTICE OF MEETINGS.

ART. 16. Notice of meetings shall be served on members personally or mailed to them at least two days previous to the time of meeting by the secretary, or a meeting of the board of managers may be held immediately after any meeting of the association without previous notice being given.

VACANCIES.

ART. 17. Vacancies may be filled at any regular meeting of the board or association or at any special meeting called for the purpose.

QUORUM.

ART. 18. A quorum of the board of managers for the transaction of business shall consist of at least seven members, and of the association at least ten of its members.

PROXY VOTING.

ART. 19. Voting by proxy shall not be allowed at the meetings of the association or the board of managers.

CONTRACTS AND SUPPLIES.

ART. 20. No member of the board shall be interested in any contract with the association to supply material of any kind.

ALTERATION OF THE BY-LAWS.

ART. 21. The by-laws may be amended at any regular or duly called meeting of the association by a vote of a majority of the whole number of members or of two-thirds of the members present.

RULES AND REGULATIONS ADOPTED BY THE BOARD OF MANAGERS NOVEMBER 19, 1888.

MEETINGS.

The regular meetings of the board of managers shall be held on the last Tuesday of each month.

ORDER OF PROCEEDINGS.

At all meetings of the board for the transaction of ordinary business the order of proceedings shall be as follows:

- | | |
|-----------------------------|-----------------------------|
| 1. Reading of the minutes. | 6. Monthly requisition. |
| 2. Superintendent's report. | 7. Reports from committees. |
| 3. Matron's report. | 8. Unfinished business. |
| 4. Treasurer's report. | 9. Communications. |
| 5. Report of physician. | 10. New business. |

APPOINTMENTS OF COMMITTEES.

The president shall appoint all standing committees unless otherwise ordered by the board.

COMMITTEES.

The following-named committees shall be appointed from the board of managers in addition to any others authorized by the board:

- | | |
|--------------------------------------|------------------------------|
| 1. Admission and placement. | 5. Housekeeping. |
| 2. Buildings, grounds, and employes. | 6. Industries and education. |
| 3. Finance. | 7. On legislation. |
| 4. Greenhouse and garden. | |

ADMISSION AND PLACEMENT.

It is the duty of the committee on admission and placement to exercise control of the admission of children and placing them in homes under regulations approved by the board of managers. The committee shall require a semi-annual report of the condition and progress of children placed in homes until they have become of adult age and are able to look out for their own interest; and shall prescribe a form of book to be kept at the home by the superintendent containing a full history of each inmate.

BUILDINGS, GROUNDS, AND EMPLOYÉS.

It is the duty of the committee on buildings, grounds, and employés to have supervision over the buildings and grounds, the purchase of stock, farm utensils and machinery required, to provide the requisite help, and to supervise all necessary repairs and the erection of new buildings.

FINANCE.

It is the duty of the committee on finance to have supervision of the finances, make estimates for the expenses of the institution and provide means for its support, to audit all expenditures, to prescribe the manner in which the treasurer and superintendent shall keep their accounts, and at least twice a year examine the books and accounts of the treasurer and superintendent and report to the board.

GREENHOUSE AND GARDEN.

It is the duty of the committee on greenhouse and garden to exercise supervision over the greenhouse and garden.

HOUSEKEEPING.

It is the duty of the housekeeping committee to supervise the purchase of supplies for maintenance required by the home; to present requisitions for supplies for the action of the board after approving the same; approve the bill of fare, and have general oversight over the domestic branch of the institution.

INDUSTRIES AND EDUCATION.

It is the duty of the committee on industries and education to attend to all matters connected with the intellectual training of the children in co-operation with the board of trustees of the public schools; to supervise the various industrial vocations deemed advisable by the board of managers, and to promote the mental improvement of the pupils and the efficiency and usefulness of the industrial department in every practicable manner.

SECRETARY'S BOOK OF BY-LAWS AND RULES.

The secretary shall keep a book containing the constitution and by-laws of the institution, in which shall be entered all the amendments and rules, resolutions and orders adopted by the board, which shall be produced for reference at the board meetings.

MEMBERSHIP AND DUES.

The secretary shall keep a book containing the names of the members of the association, the date of their election and payment of dues, and the period for which the dues are paid.

TREASURER.

¶ The treasurer will submit a detailed statement showing the condition of the treasury at each monthly meeting of the board.

The funds of the institution shall be deposited in such bank as the board of managers shall direct.

The treasurer is authorized to employ a book-keeper at a salary of \$100 per annum

REQUISITIONS FOR MAINTENANCE.

All requisitions for maintenance shall be submitted by the superintendent to the housekeeping committee for approval each month. When approved by the housekeeping committee the requisition shall be submitted to the board for its approval and no purchases shall be made until such requisitions are approved by the board.

SUPERINTENDENT.

The superintendent and matron shall make monthly reports to the board.

BILLS INCURRED.

The superintendent shall report to the board at each monthly meeting the aggregate amount of bills incurred during the preceding month and furnish a statement of all the outstanding liabilities incurred since the commencement of the fiscal year.

EMPLOYÉS.

The employés of the home shall be under the direct control of the superintendent, who is charged with the duty of seeing that each performs the duty of his or her respective station. He shall keep an accurate account of all work performed of every character, together with a time-book, and make monthly reports of work done, and the hours of attendance of each person under salary at the institution.

INSUBORDINATION.

In case of insubordination of employés the superintendent shall have power to suspend the person offending, and will report his action at the next meeting of the board.

ADMISSION.

No child under five years nor over twelve years of age shall be admitted to the home without a special order of the board.

CIRCUMSTANCES OF ADMISSION.

Only destitute children or those depending upon public charity for care or support shall be admitted.

DISCHARGE.

When a satisfactory home can be found for any ward of the institution, the committee on admission and placement may select a suitable child to be placed in such home.

INDUSTRIAL WORK.

The children in the Home of suitable age shall, in addition to their school work, engage regularly in some occupation suited to their capacity, with the object of acquiring habits of industry, of stimulating mental activity as an educational process, and of learning various manual processes for the purpose of securing suitable employment when discharged.

RELIGIOUS INSTRUCTION.

No sect distinctions shall be recognized among the inmates of the Home in either the teachers or scholars, and the same religious subjects or scripture shall be taught to the whole school, and be confined to points of doctrine and practice about which there is no dispute among Christian sects.

SCHOLARS GRADED IN CLASSES.

The scholars in both week-day and Sunday school shall be graded in classes or be classified according to their ages and attainments, and not according to any supposed religious opinions.

INMATES ABSCONDING.

Whenever a ward of the Home leaves the institution without consent, immediate written notice thereof shall be sent by the Superintendent to the person who recommended the child for admission and to the chairman of the committee on admission and placement.

PHYSICIAN.

A physician shall be employed to visit the Home, who shall make a monthly report to the board of the health of the children and the sanitary condition of the Home.

BOARD OF MANAGERS.

OFFICERS.

William B. Gurley, *President*.
 Hon. O. D. Conger, *First Vice-President*.
 Hon. William B. Snell, *Second Vice-President*.

Mrs. H. W. Blackford, *Secretary*.
 Mr. B. T. Janney, *Treasurer*.

MEMBERS.

Hon. J. B. Edmonds.
 Lewis Abraham.
 J. B. T. Tupper.
 Charles E. Foster.
 Mrs. Charles E. Foster.
 M. H. Doolittle.
 Mrs. M. H. Doolittle.
 James B. Nourse.
 Mrs. Emily Nourse.
 Hon. William B. Webb.

Mrs. J. B. T. Tupper.
 Miss Louise Tenney.
 Mrs. O. D. Conger.
 Dr. M. D. Peck.
 W. Nordlinger.
 Dr. J. F. R. Appleby.
 Mrs. J. M. Flint.
 Carlton Hughes.
 Hon. S. E. Wheatley.

COMMITTEES.

Admission and placement:

Lewis Abraham.
 Mrs. J. M. Flint.
 Hon. William B. Snell.

Buildings, grounds, and employes:

Hon. J. B. Edmonds.
 Hon. O. D. Conger.
 Dr. M. D. Peck.

Finance:

W. Nordlinger.
 M. H. Doolittle.

Greenhouse and garden:

Charles E. Foster.
 Mrs. Charles E. Foster.
 Mrs. J. B. T. Tupper.

House-keeping:

Mrs. O. D. Conger.
 Mrs. H. W. Blackford.
 Mrs. Charles E. Foster.

House-keeping—Continued:

Mrs. Emily Nourse.
 Mrs. M. H. Doolittle.
 Miss Louise Tenney.

Industries and education:

J. B. T. Tupper.
 B. T. Janney.
 Carlton Hughes.
 J. B. Nourse.

Sub-committee on girls' industrial department:

Mrs. Charles E. Foster.
 Mrs. M. H. Doolittle.
 Miss Louise Tenney.

On legislation:

Hon. William B. Webb.
 Hon. O. D. Conger.
 Hon. William B. Snell.

H 4.

NIGHT LODGING HOUSE.

WASHINGTON, D. C.,
November 23, 1888.

SIR: In accordance with your request of November 22, I have the honor to hand you my report for the year 1887-'88.

Yours, truly,

C. J. BELL,
Treasurer Night Lodging House Association.

W. TINDALL, Esq.,
Secretary.

Statement of receipts and disbursements made by C. J. Bell, treasurer Night Lodging House.

By amounts paid Mrs. Reynolds in full for deferred payments due on building:

Principal	\$2,500.00
Interest	357.92

\$2,857.92

By expense of running house, including wages, food, heat, and light, from November 2, 1887, to November 22, 1888	849.06
--	--------

3,706.98

1887.

Nov. 2. To balance in bank	522.58
To District of Columbia appropriation	400.00
To subscriptions	1,212.00
To Congressional appropriation	1,500.00
Nov. 23. Overdraft in bank	72.40
	3,706.98

REPORT OF THE SUPERINTENDENT.

NIGHT LODGING HOUSE (season of 1887-'88),
November 27, 1888.

GENTLEMEN: I certify this to be a true statement as taken from the records from December 1, 1887, to May 1, 1888:

White male lodgers	3,092
White female lodgers	22
Colored male lodgers	40
Colored female lodgers	16
Number of meals furnished	3,170
Average number of lodgers per day, during five months house was open	8,359
Average cost per meal	20
	\$0.044

House open from December 1, 1887, to May 1, 1888.

S. B. PLUMSILL,
Superintendent.

The BOARD OF COMMISSIONERS, DISTRICT OF COLUMBIA.

H 5.

COLUMBIA HOSPITAL FOR WOMEN.

WASHINGTON, D. C., *August 31, 1888.*

GENTLEMEN: The board of directors of Columbia Hospital for Women herewith respectfully transmit to you the annual reports made to us by the surgeon in charge and the treasurer.

The number of patients treated last year exceeded that of any previous year. As our city grows with our growing country obviously the numbers and annual expenses of the institution will increase beyond the mark of former years and will naturally call for increased liberality. It is hoped that the new building contemplated by the recent special and welcome appropriation by Congress for enlarged accommodations will speedily be erected. It is also hoped that for the coming year the increased receipts from the pay patients' fund will, in addition to the usual annual appropriation of \$15,000, meet all requirements.

Trusting that the institution and its administration may continue to command your confidence and friendly favor,

Very respectfully, yours,

RUSH R. SHIPPEN,
President of Board of Directors.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

COLUMBIA HOSPITAL FOR WOMEN, ETC.,
Washington, D. C., July 16, 1888.

To the Board of Directors, Columbia Hospital, Washington, D. C.:

GENTLEMEN: In compliance with request contained in the letter of the 9th instant from the Commissioners of the District of Columbia, I have the honor to submit for their information the following report of receipts and disbursements on account of Columbia Hospital during the fiscal year ending June 30, 1888, with an estimate of the amount required for the support of the hospital during the fiscal year ending June 30, 1890

(1) RECEIPTS.

By amount appropriated by the act approved March 3, 1887	\$15,000.00
By balance on hand from pay patient fund, July 1, 1887	7,071.43
By amount received from pay patients during the fiscal year ending June 30, 1888	5,783.00
Total	27,854.43

(2) EXPENDITURES.

Items.	United States appropriation.	Pay patient fund.	Total.
Salaries.....	\$2,600.00	\$600.00	\$3,200.00
Pay-rolls, services, nurses, and attendants	3,314.63	30.00	3,344.63
Marketing	1,196.12	99.40	1,295.52
Use of telephone.....	64.05		64.05
Gas.....	284.63		284.63
Fuel and forage.....	1,647.43	31.50	1,678.93
Ice.....	344.57	132.30	476.87
Groceries and provisions.....	3,822.60	977.16	4,799.76
Improvements, repairs, furniture, house-keeping supplies.....	857.06	9,813.33	10,670.39
Books, journals, stationery, printing.	263.55	59.40	292.95
Medical and surgical supplies.....	605.36		605.36
Insurance		51.25	51.25
Incidentals.....		251.03	251.03
Total expended.....	15,000.00	12,015.37	27,015.37
Balance on hand July 1, 1888.....		839.06	839.06
Total.....	15,000.00	12,854.43	27,854.43

Of the \$839.06 remaining on hand on account of pay patient fund at the close of the fiscal year, the sum of \$93.58 was due for supplies furnished during the year, bills for which were not rendered until after July 1, 1888.

The actual amount of the pay patient fund, therefore, available on July 1, 1888, was \$745.48.

For the necessary support of the hospital for the fiscal year ending June 30, 1890, the usual annual appropriation of \$15,000 will be required.

I am, gentlemen, very respectfully, your obedient servant,

JOHN M. WILSON,
Treasurer Columbia Hospital.

To the Board of Directors of Columbia Hospital for Women :

GENTLEMEN: I have the honor to submit for your consideration the annual report of the Columbia Hospital for Women and Lying-in Asylum for the fiscal year ending June 30, 1888, together with the report of the dispensary service connected herewith; also the report of the medical and surgical property of the hospital.

The matron's report of all household furniture that has been disabled or worn out is also respectfully submitted.

P. A. MURPHY,
Surgeon in Charge.

Patients in the hospital July 1, 1887.....	34
Patients admitted during the year	382
Total treated during the year ending June 30, 1888	416
Color:	
White	255
Colored.....	161
Discharged during the year	416
Died during the year.....	367
Remaining under treatment July 1, 1888.....	6
Prescriptions compounded during the year	43
Death-rate during the year.....	2,354
Daily average.....	1.442
	32.098

NATIVITIES.

Alabama	2	Mississippi	1
California	1	Missouri	2
Canada	3	New York	16
Connecticut	1	North Carolina	7
District of Columbia	73	Ohio	4
England	5	Pennsylvania	17
Georgia	3	Russia	1
Germany	14	South Carolina	4
Illinois	4	Scotland	1
Indiana	2	Tennessee	2
Iowa	1	Unknown	1
Ireland	24	Virginia	122
Italy	3	West Virginia	2
Kentucky	4	Wales	1
Maryland	90		
Massachusetts	3	Total	416
New Jersey	2		

STATES OR COUNTRIES.

Alabama	2	New Jersey	2
California	1	New York	4
Dakota	1	North Carolina	4
Delaware	1	Ohio	2
District of Columbia	303	Pennsylvania	2
Georgia	1	South Carolina	3
Illinois	1	Tennessee	2
Kentucky	1	Virginia	48
Maryland	30	West Virginia	2
Mississippi	1		
Missouri	3	Total	416
Nebraska	2		

Medical and surgical cases, 1887-'88.

Diseases.	Cured.	Relieved.	Incurable or unrelieved.	Unknown.	Died.	In house.	Total.
Abscess of mammary gland						1	1
Abscess, pelvic	1	1					2
Adenoma, mammae		1				1	2
Amenorrhœa	1	2					3
Anæmia		1				1	2
Anæmia, pernicious		1					1
Anteflexion	2	3					5
Anteversio	1	1					2
Atresia vaginæ		1					1
Corcinoma of uterus		1	4		1		6
Corcinoma of uterus (incipient)				1			1
Cellulitis, pelvic	3	5		1		1	10
Cellulitis, pelvic (chronic)	6	14				1	21
Chlora-næmia		2					2
Chorea of pregnancy				1			1
Cyst of vulvo-vaginal gland	1						1
Cystocele and rectocele	1			1			2
Dysmenorrhœa	1	1					2
Endocervicitis	5	1				3	9
Endocervicitis, chronic		2		1			3
Endometritis	3	3					6
Endometritis, chronic	7	6		1			14
Epithelioma of cervix		1					1
Erosion of cervix		1					1
Fibroma of uterus		6			1	3	10
Fibroma of cervix	1						1
Fibro-myoma	1				1	1	3
Fistula, vesico-vaginal		1	1			1	3
Hydatiform pregnancy	1						1
Hysteria	1	3		2			6

192 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Medical and surgical cases, 1887-'83—Continued.

Diseases.	Cured.	Relieved.	Incurable or unrelieved.	Unknown.	Died.	In house.	Total.
Laceration of cervix.....	4						4
Laceration of perinaeum.....	2						2
Leucorrhœa.....		2					2
Mastitis.....	1						1
Menopause.....	1	3					4
Meteorism.....						3	3
Metritis, chronic.....						1	1
Metrorrhagia.....	2	10		1		7	20
Myoma uteri.....	2						2
Metropéritonitis.....		1					1
Non-developed uterus.....		2					2
Opium habit.....		2		1			3
Ovarian neuralgia.....				1			1
Ovaritis.....	1						1
Ovaritis, chronic.....		2					2
Polypus uteri.....		1					1
Procidentia.....	2						2
Retroflexion of uterus.....	1	4				1	6
Retroversion of uterus.....	2	3					5
Scirrhus mammae.....		3				1	4
Septic pelvic cellulitis and peritonitis.....	1		1				2
Stenosis of cervical canal.....	1						1
Subinvolution.....	1	1					2
Suppressio mensium.....	5	2	1				8
Threatened abortion.....	1	4	1				6
Vaginitis.....	4						4
Varicose ulcer of leg.....		3		1			4
Not subject.....	2						2
	69	101	8	12	3	26	221

Operations for fiscal year 1887-'83.

Diseases.	Cured.	Relieved.	Incurable or unrelieved.	Unknown.	Died.	In house.	Total.
Abscess, pelvic.....							
Abscess, mammae.....	2						2
Adenoma, mammae.....						1	1
Atresia vaginae.....						1	1
Carcinoma uteri.....		1					1
Canule of urethra.....		1					1
Cyst of labium majum.....	2						2
Cyst of vulvo-vaginal gland.....	1						1
Fibromyoma of uterus.....	1						1
Hæmorrhoids.....	1						1
Laceration of cervix uteri.....	1				1		2
Laceration of perinaeum.....	4						4
Laceration of perinaeum (primary).....	6					1	7
Oöphorectomy.....	8						8
Occlusion of vagina.....	1						1
Polypus of uterus.....	1						1
Scirrhus of breast.....	2						2
Vaginal stricture obstructing parturition.....	1						1
Vesico-vaginal fistula.....	1						1
	32	3			1	3	39

OBSTETRICAL REPORT.

Patients in hospital July 1, 1887 (delivered).....	11
Admitted during the year	184
Total to be accounted for.....	195
Discharged after delivery	161
Left undelivered.....	14
Died	3
In hospital July 1, 1888:	
Delivered	6
Undelivered	11
	195
Maternal mortality	3
Cause of:	
Edema of lung, died three hours after admittance.....	1
Metro-peritonitis, died sixth day after delivery	1
Puerperal septicæmia	1
Infantile mortality	18
Cause:	
Patulous foramen ovale—asphyxia.....	2
Premature birth—debility.....	6
Suffocated by mother lying on child—asphyxia.....	3
Hemorrhage from umbilical cord—exhaustion.....	1
Non-developed lung—asphyxia.....	1
Marasmus—exhaustion.....	4
Gastro-intestinal catarrh	1
Still births.....	7
Cause:	
Unknown.....	2
Macerated	2
Protracted labor from chorea.....	1
Protracted labor	1
Patients delivered during the year	155
Admitted after delivery	3
	158
Sex of children:	
Male	78
Females	80
	158
Premature births.....	8
Prolapsus funis	1
Hemorrhage from umbilical cord	2
Breech presentations.....	3
Hand with head	2
Face presentations.....	1
Posterior occipital presentation with posterior rotation.....	2
Puerperal septicæmia	1
Ante-partal hemorrhage.....	1
Post partal	7
Placenta prævia marginalis	1
Labor complicated with vaginal stricture.....	1
Labor complicated with chorea.....	1
Puerperal mania.....	2
Menstruation during pregnancy	2
Retained membranes.....	2
Primary operations for lacerated perinæum	8
Ophthalmia neonatorum	1
Forceps at inferior strait	1
Forceps at perinæum (posterior rotation)	1
Wet nurses supplied.....	5

HOSPITAL DISPENSARY REPORT FOR FISCAL YEAR 1887-'88.

COLUMBIA HOSPITAL FOR WOMEN,
Washington, D. C.

SIR: We have the honor to submit the following report of Columbia Hospital Dispensary for the fiscal year ending June 30, 1888.

Very respectfully,

JOS. A. HORIGAN, M. D.,
JNO. F. MORAN, M. D.,
Resident Assistants.

P. J. MURPHY, M. D.,
Surgeon in Charge.

Number of patients under treatment at date of last report.....	125
Number of patients received	1, 122
Total to be accounted for.....	1, 247
Number discharged cured	92
Number discharged relieved.....	473
Number discharged unrelieved or incurable.....	2
Unknown (did not return).....	207
Sent to hospital from dispensary	148
Sent to other institutions.....	148
Number under treatment July 1, 1888.....	177
	1, 247
Number of prescriptions compounded.....	3952

Report of Columbia Hospital for Women and Dispensary, Washington, D. C., for year ending June 30, 1888.

	Hospital.	Dispensary.	Total.
Number of patients under treatment at date of last report	34	125	159
Number of patients received	382	1, 122	1, 404
Total treated	416	1, 247	1, 663
Number cured	230	92	322
Number relieved	101	473	484
Unrelieved or incurable	8	2	10
Unknown	28	207	235
Not subject for treatment	0	0	0
Died	6	0	6
Sent to hospital from dispensary	0	148	148
Sent to other institutions	0	148	148
Number under treatment at date of this report.....	0	177	220
Births.....	43	0	154
Prescriptions compounded	154	0	154
	2, 354	3, 952	6, 306

H 6.

WOMEN'S CHRISTIAN ASSOCIATION.

REPORT OF THE WOMEN'S CHRISTIAN ASSOCIATION FOR THE FISCAL YEAR ENDING JUNE 30, 1888.

The Women's Christian Association, for which an appropriation of \$4,000 is made, is located at No. 1719 Thirteenth street northwest.

The building originally cost \$22,000. The grounds contain about 21,000 square feet, and the buildings and grounds are worth about \$50,000.

The building was constructed for the purposes of the institution after plans prepared, as I am informed, by the Government architect. The plans contemplated the erection of a front building covering the larger part of the front of the lot, with a central back building; but owing to the insufficiency of the appropriation, only the central back building has been constructed up to the present time; therefore we have withdrawn from our surplus the sum of \$2,000 for this very necessary future expenditure. (See treasurer's report herewith.) The institution is located in a central and improving part of the city, and the property is increasing in value, so that the investment heretofore made could be more than realized in a sale of the property at any time.

This institution has for its object, as stated in its charter, "to afford relief and aid to the destitute, work for those seeking employment, homes for the homeless, sympathy for the friendless; to reform and restore the fallen, and bestow such Christian benevolence upon the needy as our means will allow." In carrying out this object the officers of the institution state that they have now in the institution six old ladies who are beyond helping themselves, and who, by the payment of \$100 each, have been received for life. They also state that there are others, who pay a nominal sum for board for weeks and months at a time, who have been disabled and can not pursue their vocations. There are also others who are without friends or means, and who remain at the home, and are protected, fed, and clothed, for which they are required to aid in domestic work.

There is a want of understanding as to whom we admit to the home, and we can not definitely explain, as we can not be governed by set rules and regulations—the circumstances varying in seemingly like cases—and we must discriminate in admitting them.

More elderly woman have been admitted than in any year before; all classes, from higher to lower, finding themselves without home or means, and no friends on whom they can depend, seek here a home. The number of young women who are striving by their own efforts to take care of themselves increase in their applications, paying as their circumstances admit, thus enabling them to live within their means, giving them comfort in place of anxiety and distress; but applications of those who are unable to pay even a small sum far outnumber all others; yet no woman without shelter and protection, whatever her religious belief, is turned away until her circumstances are investigated and we have done what we can for her, either in finding a service place or sending her to her friends.

The Charity Organization Society, Associated Charities, and police officers avail themselves of this home for their friendless women, while we in turn avail ourselves of the different hospitals for many of our sick.

There are now 52 beds in the home and 6 in the nursery. There were 192 women and 13 children in the home during the calendar year 1887, of whom 37 found service places. We give the names of the States and countries from which they came:

District of Columbia	45	Maine	1
Virginia	22	Rhode Island	1
Maryland	21	Kentucky	3
Pennsylvania	13	Illinois	5
Delaware	7	Dakota	1
Florida	2	Kansas	1
Mississippi	1	Iowa	1
Missouri	1	Germany	8
California	1	England	6
New York	6	Ireland	6
Massachusetts	5	Canada	5

In July, 1888, there were 51 inmates.

The repairs have added considerable to our expenses. A retaining wall was necessitated by the cutting down to grade an alley back of the premises. A heavy bank wall was recommended as most durable, and it was put in at an expense of over \$600. The old shed was undermined and had to be rebuilt, and various other items have been necessary about the house.

Three ladies constitute the visiting committee. Their province is not merely to bestow substantial aid in cases of poverty, but to extend a hand to the hopeless, to lighten the burdens of those whom Christianity denominates "our neighbor." Over three hundred visits have been made since our last report, groceries and fuel given out as needed, and six old ladies have received a monthly allowance which helps to pay their rent. Twenty-five dollars is the average amount expended per month by this committee.

From the report thus presented it will be seen that a great amount of work has been done among the very poor, the sick, and those who from various causes are temporarily disabled or homeless, the great object being to encourage women and help them to help themselves.

The officers of the association respectfully recommend that the appropriation for the fiscal year ending June 30, 1890, be \$4,000.

Respectfully submitted by direction of Mrs. Justice Harlan, president of the association, and Mrs. Thomas Wilson, secretary.

Mrs. DELIA A. TRUMAN,
Treasurer W. C. A.

WASHINGTON, D. C.,
August 15, 1888.

Treasurer's report for the fiscal year ending June 30, 1888.

CR.

By amount of appropriation for fiscal year 1888..... \$4,000.00

DR.

To payments as follows, viz:

Table expenses	\$2,696.52
Salaries and wages	562.00
Fuel	488.61
House furnishing	95.62
Drugs and medicines	74.70
Printing annual report	35.00
Ice	2.55
House repair	45.00
	<u>4,000.00</u>

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 197

Received during the year:	
Board of those able to pay.....	\$3, 129. 02
Members fees and fines	182. 80
Admissions for life	180. 00
Church collections.....	162. 45
Donations	55. 00
Entertainment.....	45. 00
Micellaneous.....	4. 25
Total.....	3, 758. 52
From balance on hand June 30, 1887.....	1, 990. 82
Total.....	5, 749. 34
Expended as follows:	
Table and other household expenses	\$562. 31
Salaries	706. 00
Fuel and gas.....	147. 02
Drugs	24. 00
House furnishing	427. 20
Basement floor.....	260. 00
Other repairs to buildings.....	209. 18
Balance on stone wall.....	407. 40
Outside relief.....	287. 94
Ice	17. 35
Funerals.....	94. 50
Printing vouchers.....	5. 00
Insurance.....	40. 00
Miscellaneous.....	20. 00
	3, 221. 82
Balance	2, 527. 52
Carried to " building fund " June 12, 1888	2, 000. 00
Balance June 30, 1888.....	527. 52

H 7.

NATIONAL ASSOCIATION FOR THE RELIEF OF DESTITUTE COLORED WOMEN AND CHILDREN.

WASHINGTON, D. C., *October, 1888.*

GENTLEMEN: In response to your communication, I have the honor to submit the following report:

Number of dependents in the Home June 30, 1888 :	
Boys	61
Girls	48
Aged women.....	9
	118
Number admitted during the year.....	15
Number sent to homes.....	13
Number died (1 boy ; 1 aged woman).....	2
Whole number cared for during year.....	133

Although no epidemic or serious sickness has occurred during the summer, the inmates have been subjected to great inconvenience and suffering by reason of the foul odors arising from the open sewer situated in the rear of the buildings. The deposit from the neighboring slaughter-houses, etc., is never removed except when the place is flooded by heavy rains. Officers of the health department have examined the premises, but have declared themselves powerless to afford relief. The managers of the Home, therefore, again earnestly appeal to the Com-

missioners to remedy the existing state of affairs, which they regard as injurious to the health of the institution and of the neighborhood.

Since the report of last year, the inspector of buildings of the District of Columbia has measured the sleeping and living rooms at the Home, and says that one hundred and fifty may be accommodated without injury to health. The greatest number under the care of the association at one time has been one hundred and eighteen, yet the financial statement of the treasurer shows that the appropriation for the fiscal year 1887-'88 (as also that of 1886-'87), failed to cover the actual living expenses of the inmates. In view of these facts and the constant pressure for admission of destitute women and children, the management respectfully urge the necessity of an annual appropriation of \$10,000.

Though it has not been regarded as part of the object of the association to provide for children under three years of age, the executive committee (in compliance with the will of Congress as indicated by the appropriation of \$1,000 for the purpose) have arranged a nursery for the care of infant foundlings, where they will receive as many as the amount provided will permit.

Respectfully,

HELEN A. COOK,
Secretary.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REPORT OF THE TREASURER.

WASHINGTON, D. C., *October 29, 1888.*

GENTLEMEN: I have the honor to inclose the following statement of receipts and expenditures for the "National Association for the Relief of Destitute Colored Women and Children," for the year ending June 30, 1888:

Receipts and expenditures for the National Association for the Relief of Destitute Colored Women and Children.

Expenditures.	Amount.	Receipts.	Amount.
Bread.....	\$699. 01	By appropriation from Congress, July 1, 1887.	\$7, 000. 00
Clothing.....	526. 40		
Medicines.....	63. 30		
Meat.....	809. 88		
Repairs.....	123. 03		
Milk.....	498. 16		
Pay-roll.....	2, 255. 59		
Groceries.....	905. 11		
Current expenses.....	220. 00		
Printing.....	27. 20		
Gas.....	45. 92		
House furnishing.....	23. 20		
Coal.....	757. 29		
Lumber.....	45. 91		
	7, 000. 00		7, 000. 00

Respectfully submitted,

ALICE M. SHADD,
Treasurer, etc.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

H 8.

CHILDREN'S HOSPITAL.

CHILDREN'S HOSPITAL,
Washington, D. C., August 31, 1888.

GENTLEMEN: In answer to your communication of the 23d instant requesting certain information concerning the receipts and expenditures and other operations of the Children's Hospital for the fiscal year ending June 30, 1888, I have the honor to submit the inclosed statements, one showing the number of patients treated and prescriptions dispensed, and the other exhibiting a full account of the receipts and expenditures of the hospital for the period previously named.

To that portion of your inquiry asking "for an estimate as to the amount necessary to maintain the hospital for the fiscal year ending June 30, 1890," I beg to answer that I am without any information on this point other than what is shown by the inclosed report to have been the current expense of the hospital for the past year may be accepted as the probable expense of the next. Adopting this method of making the estimate, and deducting from the total expenditures, as shown in the statement, the sum of \$1,582 paid on the indebtedness leaves the current expenses about \$11,000.

Very respectfully,

W. S. THOMPSON,
Treasurer Children's Hospital.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Summary for fiscal year ending June 30, 1888.

DISPENSARY.		HOSPITAL.	
Remaining at last report.....	245	Remaining at last report.....	45
Admitted.....	1,925	Admitted.....	178
Discharged.....	1,981	Discharged.....	139
Died, unknown.		Died.....	30
Remaining June 30, 1888.....	187	Remaining June 30, 1888.....	49
Total admitted to hospital and dispensary			2,103
Total discharged from hospital and dispensary			2,120
Total remaining in hospital and dispensary			236

Out of 2,103 patients treated over 84 per cent. were either cured or improved, showing a gain of at least 14 per cent. over preceding year.

Number of prescriptions compounded (hospital).....	2,986
Number of prescriptions compounded (dispensary).....	5,479

Account of the treasurer of the Children's Hospital for the fiscal year ending June 30, 1888.

DR.		CR.	
1887.			
July 1. To balance from last report....	\$1, 233. 89	By amount paid during the year:	
Received during the year from the Dis-		Marketing	\$1, 500. 00
trict of Columbia	5, 000. 00	Groceries	815. 65
From the board of lady visitors; indi-		Pay-roll	3, 787. 50
vidual contributions, and all other		Bread	394. 71
sources	6, 637. 36	Milk	836. 10
		Furniture	86. 49
		Repairs and improvements	1, 168. 49
		Medicines and surgical instruments...	566. 68
		Printing	156. 65
		Gas and fuel	820. 60
		Stationery	71. 39
		Telephone	66. 28
		Ice	163. 36
		Removing ashes and snow	50. 30
		Miscellaneous items	409. 02
		Interest and indebtedness	1, 582. 75
		Balance	395. 28
	12, 871. 25		12, 871. 25

The above is a complete statement of my account.

AUGUST 28, 1888.

W. S. THOMPSON,
Treasurer Children's Hospital.

H. 9.

ST. ANN'S INFANT ASYLUM.

ST. ANN'S INFANT ASYLUM,
Washington, D. C., September 18, 1888.

GENTLEMEN: In reply to a request made from your office August 28, 1888, I respectfully submit the following report:

During the fiscal year ending June 30, 1888, we received one hundred and twenty-five children.

The workings of our institution are always about the same—the care of infants and small children or those under seven years.

The average number of inmates during the year was one hundred and ten. This does not include the infants intrusted to wet nurses outside the asylum. Of these little ones there have been on an average of from twenty-five to thirty.

Our means are not sufficient. We have been from time to time obliged to borrow money. This can be seen from our receipts and expenditures.

Our expenses, even with the greatest economy, are about \$11,000 annually. We really need an increase of appropriation, and trust you gentlemen will do what you can to secure it for us.

Our grocery bills and others, too, may seem large to those not knowing the number in our house. There are from twenty-eight to thirty adults and about eighty-five children.

RECEIPTS.	
Receipts for July, 1887:	
Received for fifteen children	\$91. 00
Donations	35. 50
Charity	10. 00
Total	136. 50

Receipts for August, 1887:

Received for seventeen children	\$90.00
Eight months' board for one child	50.00
Donations	136.18
Total	<u>276.18</u>

Receipts for September, 1887:

Received for children	90.00
Donations	25.00
Total	<u>115.00</u>

Receipts for October, 1887:

Received for children	74.00
Donations	25.00
Total	<u>99.00</u>

Receipts for November, 1887:

Received for fifteen children	82.00
Patients	83.00
Total	<u>165.00</u>

Receipts for December, 1887:

Received for children	86.00
Sundry receipts	25.26
Donations	113.50
Total	<u>224.76</u>

Receipts for January, 1888:

Received for children	68.00
Donations	70.50
Poor boxes account	58.00
Total	<u>196.50</u>

Receipts for February, 1888:

Received for children	110.00
Sundries	67.00
Donations	37.00
Total	<u>214.00</u>

Receipts for March, 1888:

Received for children	42.00
Received for patients	22.00
Donations	30.00
Total	<u>94.00</u>

Receipts for April, 1888:

Received for children	53.00
Received for patients	83.00
Donations	37.50
Total	<u>173.50</u>

Receipts for May, 1888:

Received for children	95.00
Received for patients	15.00
Received for donations	40.00
Total	<u>150.00</u>

202 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Receipts for June, 1888:

Received for children.....	\$96.00
Received for sundries.....	150.00
Total.....	<u>246.00</u>

EXPENSES.

Expenses for July, 1887:

Wet-nursing twenty infants.....	197.00
Repairing stable-yard.....	134.00
Meat.....	107.00
Vegetables, eggs, and butter.....	85.39
Groceries.....	48.00
Paid two men \$12 each per month.....	24.00
Paid two cooks \$9 each per month.....	18.00
Paid six nurses \$5 each per month.....	30.00
Sundries.....	17.00
Total.....	<u>660.39</u>

Expenses for August, 1887:

Wet-nursing twenty infants.....	211.00
Meat.....	111.00
Paid two men \$12 each per month.....	24.00
Vegetables.....	65.19
Paid two cooks \$9 each per month.....	18.00
Paid six nurses each \$5 per month.....	30.00
Total.....	<u>459.19</u>

Expenses for September, 1887:

Wet-nursing twenty infants.....	197.00
Meat.....	111.80
Case children shoes, 75 pairs, at 80 cents per pair.....	60.00
Case infant shoes, 60 pairs, at 50 cents per pair.....	30.00
Sundry expenses.....	20.60
Paid two men each \$12, two cooks \$9 each, six nurses \$5 each per month.....	72.00
Paid for paint.....	57.68
Total.....	<u>549.08</u>

Expenses for October, 1887:

Wet-nursing eighteen infants.....	181.00
Quarter's bread.....	122.15
Meat.....	104.91
Dry goods.....	92.93
Groceries.....	34.72
Vegetables.....	29.27
Butter.....	18.03
Sundries.....	26.27
Paid two men \$12 each.....	24.00
Paid two cooks \$9 each.....	18.00
Paid six nurses \$5 each.....	30.00
Total.....	<u>681.28</u>

Expenses for November, 1887:

Wet-nursing nineteen infants.....	189.00
Meat.....	108.95
Butter, \$21.21; vegetables, \$17.75.....	38.96
Dry goods for children, \$77.36; sundries, \$13.53.....	90.89
Paid two men \$12 each, two cooks \$9 each, six nurses \$5 each, per month.....	72.00
Total.....	<u>499.80</u>

Expenses for December, 1887:

Wet-nursing twenty-one infants	\$205.00
Dry goods	131.04
Set of furniture, \$65.75; sundries, \$28.41	94.16
Meat	115.65
Paid two men \$12 each, two cooks \$9 each, six nurses \$5 each, per month	72.00
Total	<u>617.86</u>

Expenses for January, 1888:

Wet-nursing twenty infants	183.00
Quarter's bread	131.04
Meat	108.80
Vegetables, \$20; eggs, \$6.49; butter, \$20	46.49
Paid two men \$12, two cooks \$9, six nurses \$5, per month	72.00
Sundries	215.31
Total	<u>756.64</u>

Expenses for February, 1888:

Wet-nursing twenty-five infants	223.00
Meat, \$116.06; groceries, \$211.85	327.91
Vegetables, \$40; eggs and butter, \$10.95	50.95
Paid two men \$12, two cooks \$9, six nurses \$5, each, per month	72.00
Total	<u>673.86</u>

Expenses for March, 1888:

Wet-nursing twenty infants	229.00
Meat	99.49
Quarter's bread	113.47
Groceries	46.50
Vegetables and butter	34.29
Paid two men \$12, two cooks \$9, six nurses \$5, each, per month	72.00
Sundries	71.52
Dry goods	51.26
Total	<u>717.53</u>

Expenses for April, 1888:

Wet-nursing twenty infants	183.00
Groceries	386.82
Vegetables and butter	137.29
Meat	120.00
Sundries	239.46
Paid two men, \$12; two cooks, \$9; six nurses, \$5, per month	72.00
Total	<u>1,138.57</u>

Expenses for May, 1888:

Wet-nursing twenty-six infants	226.00
Flour and feed, ten months	241.63
Vegetables, butter, and eggs	49.33
Meat	107.15
Dry goods, \$106.54; sundries, \$115.65	222.19
Paid two men, \$12; two cooks, \$9; six nurses, \$5, per month	72.00
Total	<u>918.30</u>

Expenses for June, 1888:

Wet-nursing twenty infants	183.00
Meat	105.83
Vegetables	47.31
Paid two men, \$12; two cooks, \$9; six nurses, \$5, each per month	72.00
Paid for hair	65.20
Paid for medicine	45.00
Sundries	147.63
Total	<u>665.97</u>

There is \$50 allowed for each sister's clothing annually. As we are ten here, \$500 has been added for it.

Repairing furnace.....	\$746.35
Plumbing.....	489.05
Fuel.....	567.02
Sisters' clothing.....	500.00
Clothing for help not paid regular wages, \$125 per year.....	125.00
Expended.....	2,427.42
	8,337.86
Grand total.....	10,765.28
Appropriations.....	6,000.00
Annual subscription.....	407.00
Amount received.....	2,069.84
Total amount received.....	8,476.84

SISTER ELIZABETH RELIHAN,
President of St. Ann's Infant Asylum.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

H 10.

CHURCH ORPHANAGE.

WASHINGTON, D. C., *October 24, 1888.*

SIRS: In compliance with the requirements expressed in your communication of August 23 last, addressed to the Rev. W. A. Leonard, warden, I hand you herewith a statement of the receipts and expenditures of the Church Orphanage Association for the year ending June 30, 1888.

On account of our large number of inmates and increased expenses, I earnestly ask that the annual amount donated by Congress for our use be made \$2,500, instead of \$1,500 as heretofore.

Respectfully,

THOS. HYDE,
Treasurer.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Statement of receipts and expenditures Church Orphanage Association for the year ending June 30, 1888.

RECEIPTS.	
Balance as per last statement.....	\$1,215.44
Donated by Congress, annual.....	1,500.00
Voluntary contributions.....	1,222.43
Balance to new account.....	709.61
	4,647.48

EXPENDITURES.	
Meats.....	259.75
Milk.....	432.79
Groceries and vegetables.....	742.55

Gas.....	62.52
Coal.....	159.85
Dry goods.....	40.09
Drugs.....	27.82
Shoes.....	100.71
Wages and incidental house expenses.....	600.00
Insurance premiums.....	69.75
Printing.....	24.25
Recording deeds to the Orphanage Country Home.....	6.25
Fertilizers and garden seeds for Country Home.....	32.84
Repairs to city and country property.....	1,586.99
Transferred to special building account by order of board of trustees.....	501.32
	4,647.48
Balance due me at this date.....	709.61

BUILDING ACCOUNT.

Oct. 22, 1887. Expended under contract.....	6,000.00
Sept. 28, 1887. By credit with Treasurer United States, donated by Congress for the erection of new wing to the Orphanage building..	6,000.00

H 11.

WASHINGTON HOSPITAL FOR FOUNDLINGS.

WASHINGTON, D. C., *August 29, 1888.*

GENTLEMEN: The board of directors have the honor to transmit herein a report of the Washington Hospital for Foundlings, as required by act of Congress approved July 5, 1884, for the year ending June 30, 1888.

The Washington Hospital for Foundlings, situated on Fifteenth street, between R and S streets, No. 1715 Fifteenth street northwest, was open for the reception of children January 4, 1887. The value of the buildings and grounds was estimated December 1, 1886, to be as follows:

38,220 feet of ground fronting on Fifteenth street west, between R and S streets north, at the estimated value of \$1 per foot.....	\$38,220
Improvements on ground.....	25,000
Total.....	63,220

CAPACITY OF BUILDING.

Fifty children (babes) can be accommodated, but all the attendants necessary for the care of the same could not be accommodated in the building. It is estimated that the cost of maintenance, not including cost of additional furniture, beds, bedding, etc., insurance and repairs, will be about \$7,000.

There were in the hospital July 1, 1887, 11 children; 44 were admitted during the year, making a total of 55. Of these 5 were adopted, and from July 1, 1887, to June 1, 1888, 20 died. During the excessive heat of June, 10 died from an epidemic of cholera infantum, making a total mortality of 30. Of this number 7 children died within from five to twenty-five days after being admitted, having been congenitally diseased.

A daily average of inmates would be difficult to give.

The children were received as follows :

July, 1887	5	February, 1888	6
August, 1887	4	March, 1888	2
September, 1887	1	April, 1888	1
October, 1887	5	May, 1888	3
November, 1887	4	June, 1888	4
December, 1887	2		—
January, 1888	7	Total	44

NUMBER OF EMPLOYÉS.

Matron, head nurse, janitor, cook, two laundresses, housemaid, two nursery maids, and eight nurses; total, seventeen.

AMOUNT PAID TO EMPLOYÉS

	<i>Per month.</i>		<i>Per month.</i>
Matron	\$50	Laundress	\$10
Head nurse	30	Housemaid	10
Janitor	20	Nurses (average)	12
Cook	12	Nursery maids	5

RECEIPTS.

United States appropriation	\$7,000.00
Membership, dues, and contributions	463.64
Proceeds of entertainments	686.00
A. C. Clark, tax certificate	69.01
Endowment fund	281.40
Donations for special purposes	165.00
Total receipts	<u>8,665.05</u>

EXPENDITURES.

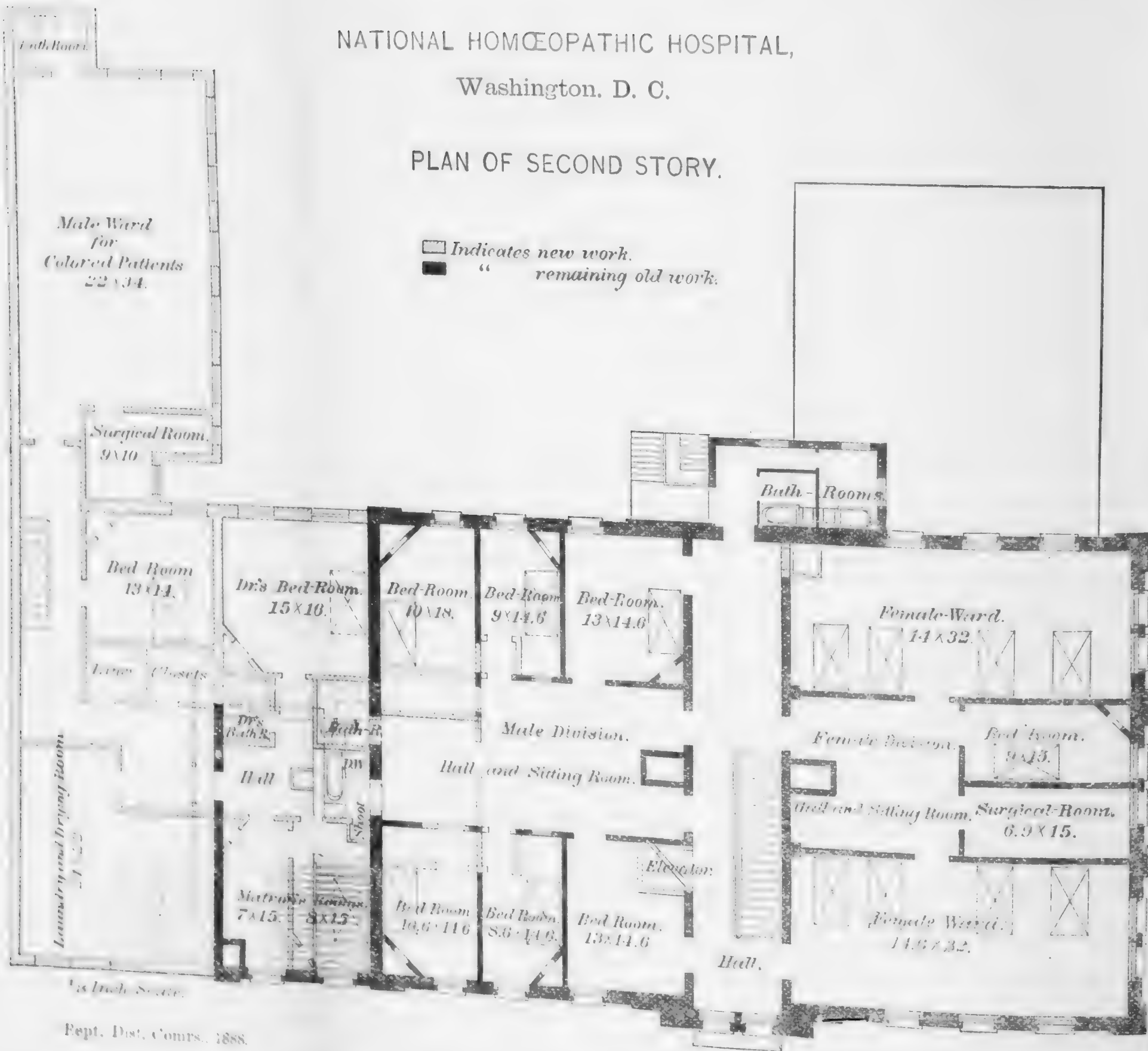
Maintenance:

Salary and wages, including seamstress	2,864.48
House furniture, hardware, crockery, glass, china, baby carriages, stoves, bedding, etc	877.45
Dry goods and rubber goods	173.81
Gas (light and heating milk at night)	215.77
Ice	62.96
Milk	562.61
Condensed and malted milk food	216.10
Provisions	1,527.52
Fuel	521.79
Medicine, bottles, sponges, disinfectants, and other nursery supplies ..	179.83
Sundries for house, kitchen, and laundry	133.87
Printing, blank books, advertisements, stationery, and postage	133.57
Insurance	40.00
Paints and oils	14.96
Cost of cows	109.00
Miscellaneous	119.45
Repairing steam heater, stoves, etc., and plumbing	206.93
Expended for special purposes, as directed by the contributors	165.00
Construction:	
Lumber, material, etc.	314.19
Carpenters, laborers, etc	225.76
Total expenditures	<u>8,665.05</u>

The building is still scantily furnished, and for further equipment to accommodate the increasing number of children a considerable expenditure of means will be required. It is hoped that these expenditures will be largely met from voluntary contributions.

NATIONAL HOMŒOPATHIC HOSPITAL,
Washington, D. C.

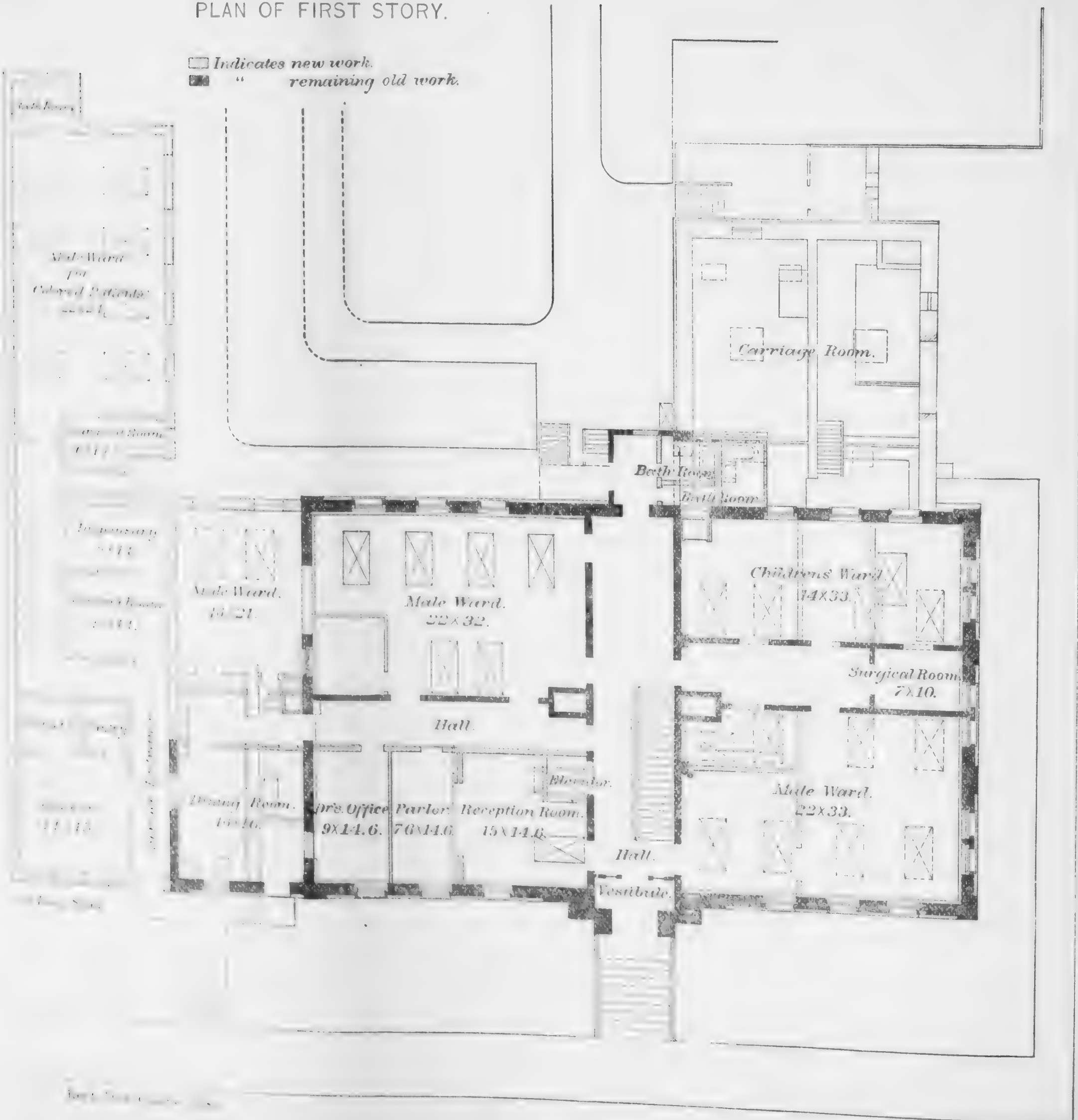
PLAN OF SECOND STORY.



NATIONAL HOMŒOPATHIC HOSPITAL,
Washington, D. C.

PLAN OF FIRST STORY.

□ Indicates new work.
■ " remaining old work.



For the maintenance of the institution it is asked that the sum of \$7,000 be appropriated, and for the purposes of repairing and furnishing of the building to completion the sum of \$3,000 ; making a total of \$10,000.

In behalf of the board of directors.

Very respectfully,

Mrs. J. CURTISS SMITHE,
Secretary.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

H 12.

NATIONAL HOMEOPATHIC HOSPITAL ASSOCIATION.

WASHINGTON, D. C., November 15, 1888.

To the Commissioners of the District of Columbia :

Agreeably to your request of August 23, 1888, I have the honor to transmit herewith a statement in detail of the receipts and expenditures and a report of the operations of the National Homeopathic Hospital Association of the District of Columbia for the fiscal year ending June 30, 1888.

The board of trustees of the association has instructed me to reply, in answer to your request for an estimate of the amount necessary to maintain the hospital for the fiscal year ending June 30, 1890, that Congressional aid to the amount of \$10,000 will be required, in addition to what may be received from the Ladies' Aid Society and friends of the hospital and from pay patients. The income of the association has been entirely inadequate to enable it to meet the expense of support of many desiring homeopathic treatment free of charge—denied admittance not alone for lack of funds to support them but for want of room to accommodate them. Free patients have at all times been admitted to the utmost limit of the resources of the hospital.

In view of the foregoing, and to meet the urgent demand for more room and for alterations and improvements in the present building for the proper treatment of free patients of both sexes, white and colored, for children, for a maternity ward, and for the preparation of rooms for inebriates, the board of trustees beg leave to submit the following summary of needed improvements and additions, and most respectfully ask Congress, through your honorable body, to appropriate the sum of \$25,000 for carrying the same into effect. Plans have been prepared showing the nature and extent of the improvements and additions contemplated; they are presented herewith for your inspection.

The general principles intended to be followed in the proposed improvements and additions are:

To create a basement story by excavating under the present building.

To enlarge the space for the male division and utilize the west side, now occupied for reception, committee, dining-rooms, etc., for male ward.

To create wards for children and for a maternity ward.

To use the northeast ward for the needs of the service, and generally to plan all the improvements necessary to bring the present hospital building to the standard of a model institution.

The first floor of the hospital building now rests on the ground ; there

is no air space; owing to this a large portion of the floor is rotten and will have to be renewed, the outside foundation walls being 14 feet deep. It is proposed to excavate under the whole building, which will give a good basement and can be used to good advantage for various domestic purposes, as laundry, drying-room, storage of provisions, coal, etc., and for a morgue. The inner walls having only a shallow foundation will require to be underpinned.

The present kitchen, pantries, dining-room, and doctor's office are too small; the odors from the kitchen and smoke from the boiler chimney penetrate the wards and rooms of the south side of the hospital, and this is a constant source of annoyance and complaint. It is therefore proposed to build a new kitchen and boiler-room on the northeast corner of the lot, thus doing away with the present inadequate and unsightly building. The space occupied by these can be used as a carriage house for the shelter of physicians' and visitors' teams, for which there is no provision.

In order to utilize the pleasant west wing of the first floor (now occupied as reception, committee, dining-room, etc.,) for free wards, these rooms would be located on the northeast front of the building as shown in the plan; on the southeast side the present male ward could remain and be extended, the new dining-room, kitchen, and pantry adjoin on the east and have a separate entrance and hall-way from N street, leading to the new rooms on the southeast for dispensary patients and wards for colored patients; all the new buildings to be two stories and to be either fire-proof or composed of slow-burning materials.

The plan also contemplates the erection of a suitable elevator to run from the basement, the finishing of the fourth floor of present building for rooms for nurses and servants and a sun-room, and the erection of fire-escapes; also, for providing suitable bath-rooms and closets for each ward and floor, and for the proper heating, ventilation, and sewage of the buildings.

The estimated cost of these improvements is \$30,000. The association has on hand \$3,500 applicable to this work, and through its board of trustees most respectfully and earnestly ask your honorable body to recommend to Congress that the appropriations herein asked for, viz, \$10,000 for maintenance and \$25,000 for improvements and new buildings for the fiscal year ending June 30, 1890, be granted.

Very respectfully,

A. S. PRATT,
President Board of Trustees.

NATIONAL HOMEOPATHIC HOSPITAL,
Washington, D. C., November 15, 1888.

Report of cases treated for the year ending June 30, 1888.

Received in the hospital (embracing over sixty different forms of disease).....	116
Males.....	54
Females.....	62
Recovered.....	79
Improved.....	22
Unimproved.....	4
Incurable.....	1
Died.....	6
Of dispensary and outdoor patients there were who received treatment.....	1,467
Males.....	350
Females.....	780
Children.....	337

Of the 1,467—	
Colored	1,213
White	254
Number of patients receiving treatment in the hospital.....	116
Number of patients received and treated in the hospital dispensary.....	1,467
Total number	1,583
Daily average at hospital	15
Daily average, dispensary patients	18
Total number of prescriptions made.....	2,942

Respectfully submitted.

A. S. PRATT,
President Board of Trustees.

*Receipts and disbursements National Homeopathic Hospital Association of Washington, D.
C., from July 1, 1887, to June 30, 1888, inclusive.*

RECEIPTS.

From balance brought forward.....	\$2,087.88
Patients:	
July, 1887	\$150.50
August, 1887	327.90
September, 1887	187.00
October, 1887	172.65
November, 1887	284.50
December, 1887	362.85
January, 1888	284.50
February, 1888	398.50
March, 1888	263.00
April, 1888	211.29
May, 1888	222.00
June, 1888	208.40
	3,073.09
Membership	139.00
Donations:	
Hutchinson Bros., Baltimore	50.00
M. W. Beveridge	5.00
Waste paper	2.52
Congress	3,000.00
Ladies' aid:	
July, 1887	\$150.00
October, 1887	62.94
December, 1887	100.00
April, 1888	300.00
May, 1888	300.00
	912.94
Total.....	9,270.43

DISBURSEMENTS.

Maintenance:	
Groceries, marketing, provisions, etc.....	\$4,021.91
Salaries	2,593.43
Coal	375.75
Medicine	366.54
Ice	105.76
	7,463.39
Miscellaneous:	
Printing and stationery	116.24
Advertising, \$34; telephone, \$61.99	95.99
Interest on note	180.00
Insurance, \$64; whitewashing, \$13	77.00
Plants and gardening	16.95
Cleaning carpet, \$7.48; paper, \$24.50	31.98
Repairing clock	4.00
	522.16

Furniture, bedding, and hospital appliance:

Bedding, quilts, and towels	\$56. 53	
Crockery, \$130.74; surgical instruments, \$115.60	246. 34	
Furniture	276. 29	
Tools, \$28.51; brush, \$2.54	31. 05	
		\$610. 21

Construction expenses:

Work and material on building	256. 96	
Painting, paints, etc	94. 84	
Lumber, \$14.61; bricks, \$7.51; hardware, \$12.12	34. 24	
Plumbing material and work	226. 30	
		612. 34
Balance on hand		62. 33
		9, 270. 43

H 13.**ASSOCIATION FOR WORKS OF MERCY.**

SENATE CHAMBER,
Washington, September 17, 1888.

GENTLEMEN: Pursuant to the act of Congress of July 18, 1888 (District appropriation bill), I herewith transmit to you, on behalf of Mrs. Edmunds, the purser, an inclosed statement of the accounts and operations of the Association for Works of Mercy for the last fiscal year. Please acknowledge receipt.

Respectfully, yours,

GEO. A. EDMUNDS.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

WASHINGTON, November 26, 1888.

In my letter of September 18, making the report for the Association of Works of Mercy, no explanation was made of the objects for which aid is asked from Congress. That omission is now supplied.

First. Two thousand five hundred dollars for maintenance. The furniture for the house was mostly loaned, and has recently been reclaimed by its owner. To supply the necessary and most ordinary comforts would require an expenditure of \$1,200 or \$1,500.

The heating apparatus recently gave out from long usage, and had to be renewed at a cost of several hundred dollars on credit.

These two items considerably exceed the difference between the appropriation for maintenance made for the current year, and that solicited for the ensuing year.

Second. For repairs, \$500. The condition of the house requires this outlay to make it serviceable. The building is old and needs watchful care to prevent decay, and to avoid costly improvements.

Third. Three thousand dollars to aid in the purchase of the lot adjoining the House of Mercy. From the nature of our institution privacy and security are important elements. Both these protections have been seriously interrupted by the occupancy of the adjoining premises.

Independent of this urgent reason the demand for more room is constantly increasing. The benefits already conferred by our endeavors have attracted favorable attention here and elsewhere, for they have been by no means limited to residents of the District of Columbia.

Larger accommodation to meet this want and to extend the system of reform is much needed.

The managers of the House of Mercy have adopted the strict rule of asking only such assistance from Congress as, joined to the fund procured by their own efforts, may enable them to prosecute the good work in which they are engaged with reasonable success. They invite the most careful scrutiny into every expenditure, and would be glad to have the Commissioners and the committees of Congress make a personal inspection of the institution and its methods.

Respectfully submitted.

SELINA MOORE HARVEY,
President of the Board of Managers.

Hon. W. B. WEBB,
President Board of Commissioners.

WASHINGTON, *September, 1888.*

GENTLEMEN: The Association for Works of Mercy herewith submits a statement of its receipts and expenditures and operations for the year ending June 30, 1888, with an estimate of the sums necessary for the carrying on the work for the year ending June 30, 1889.

RECEIPTS.

Balance on hand July 1, 1887.....	\$709. 86
Received from contributions	1, 974. 72
Received from United States Treasury.....	3, 600. 00
	6, 284. 58

Contributions of articles for use valued at \$131.

EXPENDITURES.

For payment on debt secured on the property, with interest on balance to April, 1888.....	\$3, 600. 00
For supplies of all kinds	1, 550. 36
For repairs and miscellaneous expenses.....	297. 92
Wages of employes.....	435. 07
Expended for country house	105. 00
Balance on hand.....	296. 23
	6, 284. 58

OPERATIONS.

Number of inmates July 1, 1887.....	15
Received since	18
	33
Sent to service.....	3
Sent to hospital.....	7
Escaped	1
Otherwise discharged	13
Number at present in Home	9
	33
Daily average.....	12

The resident lady in charge serves without other compensation than her board.

There are three assistants, and occasional laborers, to all of whom the total salaries and wages paid have been \$435.07.

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ESTIMATE OF MONEY NEEDED FOR COMING YEAR.

For repairs	\$500
For aid in purchasing the lot at corner of K and Twenty-fourth streets, now injuriously indenting the property	3,000
For maintenance.....	2,500
	6,000

It is believed by those having this work in charge that it has already demonstrated the benefits of this method of charitable reformation of the class to the reformation of whose condition their efforts are specially directed, and it is earnestly hoped that such liberal further aid may be given to it as will enable its beneficent work to be greatly extended.

SELINA M. HARVEY,
President.

SUSAN M. EDMUNDS,
Purser.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

TREASURER'S STATEMENT.

In connection with the foregoing statement there is submitted for further detailed information the statement of the treasurer, Mr. L. C. Young, and of the lady in charge of the institution, Miss Mary Talcott, as follows:

Statement of Ludwick C. Young (acting treasurer to February 6, 1888, at which time elected treasurer), treasurer of the Association for Works of Mercy, September 7, 1888.

1887.			
June	30.	Balance on hand	\$709.86
		Receipts:	
July	15.	United States Treasury	3,600.00
Aug.	31.	Acting Purser Miss Strong	33.50
Oct.	15.	Acting Purser Miss Strong	79.85
Nov.	18.	Acting Purser Miss Strong	109.25
Dec.	19.	Adams Express Company, by Mrs. Harvey	100.00
	21.	Acting Purser Miss Strong	105.25
1888.			
Jan.	18.	Acting Purser Miss Strong	101.78
Feb.	14.	Acting Purser Miss Smallwood	72.00
	23.	Grace Church, Baltimore, Md	45.89
	27.	Miss Talcott, by Mrs. Harvey	9.00
Mar.	15.	Through Mrs. Harvey	5.00
	16.	Acting Purser Miss Smallwood	135.00
Apr.	11.	Acting Purser Miss Smallwood	187.25
	11.	Acting Purser Miss Smallwood as from Mrs. Hearst for fuel	100.00
May	15.	Mrs. Edmunds, purser	126.50
	26.	Mrs. Edmunds, purser	45.55
	26.	P. G. am. entertainment	415.40
June	1.	Mrs. Edmunds, purser	11.00
	13.	Mrs. Edmunds (by Senator Edmunds)	117.50
	30.	Mrs. Edmunds	75.00
		Total amount, receipts and balance included	6,184.58
1887.		Disbursements:	
July	5.	Repairs to bath-tub	3.00
	8.	Monthly expense, per Miss Strong	130.00
	1c.	Note No. 3 and interest	\$2,364.11
	16.	Note No. 4 and interest	1,166.89
	16.	Interest on balance to April 5, 1888	69.00
			3,600.00

1887.		Disbursements—Continued.	
July	20.	Repairs to gates and fence	\$14.50
Aug.	4.	Monthly expense, per Miss Strong (July)	130.00
	31.	Monthly expense, per Miss Strong	130.00
Sept.	27.	Monthly expense, per Mrs. Harvey	\$15.00
Oct.	5.	Monthly expense, per Miss Strong	115.00
	4.	Painting roof	130.00
	21.	Repairs to roof and guttering	18.00
			4.50
Nov.	2.	Monthly expense, per Miss Strong	130.00
Dec.	1.	Monthly expense, per Miss Strong	130.00
1888.			
Jan.	4.	Monthly expense, per Miss Strong	130.00
	23.	Printing reports	24.75
Feb.	1.	Monthly expense, per Miss Smallwood	130.00
	14.	Miss Talcott, current expenses	100.00
Mar.	3.	Miss Talcott (by Mrs. Harvey)	130.00
	3.	Mrs. Harvey on bill John Moran	30.00
Apr.	2.	Monthly expense, by Mrs. Harvey	130.00
May	2.	Monthly expense, by Mrs. Edmunds	130.00
	15.	Mrs. Edmunds on fuel bill	23.00
June	1.	Mrs. Edmunds, monthly expense	130.00
	13.	Mrs. Edmunds (per Senator)	*35.60
	14.	Mrs. Harvey, to rent of house in country for summer	250.00
	30.	Mrs. Edmunds, for current expenses	225.00
		Disbursements	5,888.35
		Balance year ending June 30, 1888	296.23

One donation of \$100 did not pass through the hands of the treasurer, making cash contributions \$1,914.83.

Cash account of House of Mercy July 1, 1887, to June 30, 1888.

CR.

Balance on hand	\$17.04
Cash from purser	1,660.00
Donations in cash	88.32
Cash for inmates' work	137.97
	1,903.33

DR.

Country house	105.00
Salaries and wages	435.07
Marketing	\$377.12
Groceries	272.27
Meat	131.40
Milk	95.17
	875.96
Clothing and shoes	78.01
Purchase and repairs	136.43
Fuel and gas	223.69
Postage and car-fares	38.98
Medicines	9.16
Balance on hand	1.03
	1,903.33

* Paid to Moran & Fletcher.

H 14.

NATIONAL TEMPERANCE HOME.

NATIONAL TEMPERANCE HOME,
Washington, D. C., November 13, 1888.

GENTLEMEN: We have the honor to inclose herewith a statement of the work accomplished at National Temperance Home from July 1 to October 31, inclusive, under the appropriation received from Congress for 1888-'89. We also inclose, herewith, copies of the "First Annual Report," which was published in July last, in which can be seen what was done during the first year, also the object of the Home and the good accomplished.

We have every reason to be thankful for having established this Home, and for the aid received from Congress for the current year, which has enabled us to furnish the Home more comfortably and to better care for those who are sheltered therein. One of the objects, to have the soldier and sailor find there a "home" free from evil influences, has been most successful, and many civilians have also been taken in, and inebriates also.

We have been obliged at different times to refuse applications for admission because of having no room; and as soon as we can see our way clear we will be obliged to take a larger house, unless we can secure money in order to build such an institution as the city is so much in need of.

We have had a few cases of alcoholism which have been, we are confident, successfully treated by moral influence alone—these have been talented young men who have fallen by the way-side. Now they are in business and able to be men amongst men. Some cases we have been obliged to refuse, they requiring treatment which we, with our limited accommodations, could not give. We greatly desire in the coming year to take such cases and give them the treatment which is needed for such patients, which, combined with moral influences, we are convinced will do good work. We have been able to find employment for many who have come to us, and others have worked at the Home and thus paid their way.

We trust, gentlemen, that you are sufficiently interested in our work and its progress to wish it future success, and we therefore most respectfully ask your aid in our behalf of Congress at its coming session. If we can secure a larger appropriation we can then establish industries, as well as fit up rooms for the special care and cure of the inebriate. We sincerely hope that you will see that we at least receive the same amount which we are now getting (\$2,500), and which we feel is being put to good use. And while we most heartily thank you for your assistance in the past, and earnestly beg for its continuance,

We are, very respectfully, your obedient servants,

Miss LAVINIA H. CHASE,
President National Temperance Home.

HELEN R. KIRBY,
Chairman Finance Committee.

LOUISA S. WEIGHTMAN,

Secretary.

LENA M. HANSMANN,
Treasurer.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 215

Condensed report from July 1 to October 31, 1888.

Number of persons accommodated without charge.....	122
Number of persons accommodated with pay.....	186
Total.....	308
Meals furnished free.....	756
Meals paid for ..	1,158
Total.....	1,914
Lodgings furnished free.....	426
Lodgings paid for.....	537
Total.....	963
Number of soldiers and sailors, free.....	71
Number sent by Sanitary Officer Teeple.....	16
Number admitted to hospitals from the Home.....	2
Number furnished with clothing.....	3

Account of Treasurer of National Temperance Home with the United States Treasury, from July 1 to November 30, 1888.

RECEIPTS.

Aug. 20. Draft on the United States Treasury for quarter ending Sep- tember 30, 1888	\$625.00
Oct. 16. Draft on the United States Treasury for quarter ending Decem- ber 31, 1888	625.00
Total.....	1,250.00

EXPENDITURES.

Aug. 20. Three months' rent of house 329 Missouri avenue.....	105.00
23. Printing annual report of National Temperance Home.....	30.00
24. Wages to chambermaid for July.....	7.00
24. Wages to cook for July.....	8.50
24. Salary to resident superintendent for July.....	20.60
24. Julius Lansburgh for carpet.....	47.50
27. W. B. Moses, two mantel-beds, mattresses, and curtains	33.43
31. Wages to chambermaid for August.....	7.00
31. Wages to cook for August.....	8.50
31. Salary to resident superintendent.....	20.00
31. Money advanced by Miss L. H. Chase for rent.....	74.00
Sept. 1. Printing 500 blank vouchers, B. S. Adams.....	4.00
3. M. W. Beveridge, for household utensils.....	19.54
3. Cabinet organ, Andrew J. Benton	65.00
6. Gas	2.50
7. Money advanced by Miss H. R. Kirby, expenses in May.....	59.00
7. Carpenter work, Arthur J. Bache.....	5.50
10. 20 yards cretonne for curtains	2.00
12. M. W. Beveridge, for household articles.....	14.76
27. Fuel, J. Edw. Chapman.....	8.30
27. Table linen and bedding, Lansburgh & Bro.....	26.47
27. Salary to resident superintendent for September	20.00
27. Salary to matron for September	20.00
27. Wages to cook for September.....	10.00
27. Wages to chambermaid for September	7.00
Oct. 17. Gas.....	5.40
17. Three months' house rent.....	105.00
17. One-half month salary of matron	10.00
20. Julius Lansburgh, chairs, curtains, tables, etc	78.02
20. E. M. Burchard & Bro., provisions.....	21.03

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Oct.	20. Joseph F. Page, groceries.....	\$11.35
	20. J. J. Appich, potatoes	4.00
	20. M. W. Beveridge, kitchen furniture	9.18
	20. Lansburgh & Bro., bedding	52.01
	29. Wages to cook for October	10.00
	29. Wages to chambermaid for October.....	7.00
	29. Salary to resident superintendent for October.....	20.00
	29. Salary of matron one-half month, October.....	10.00
	30. Fuel, J. Edw. Chapman	16.41
	30. E. M. Burchard, groceries	21.49
Nov.	6. Gas	8.38
	15. One-half month's salary to matron	10.00
	30. Fuel, J. E. Chapman	10.00
	30. Wages to chambermaid for November	10.00
	30. Wages to cook for November.....	10.00
	30. Half-month salary to matron for November.....	10.00
	30. Salary of resident superintendent for November	20.00
	30. E. M. Burchard, groceries	30.93
	30. Joseph F. Page, oil-stove	7.37
Total		1,123.51

Respectfully submitted.

LENA M. HANSMANN, *Treasurer.*

H 15.

CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.

WASHINGTON, D. C., *November 19, 1888.*

SIRS: I have the honor to make the following report in regard to the workings of the Central Dispensary and Emergency Hospital during the last year.

The amount of work done at the hospital has been very great, and the number of its patients is continually increasing. I inclose, as a part of my report, a circular prepared last March for the benefit of our contributing members, which will give a very good idea of the work done from April, 1887, until that time (March, 1888).

A similar list, covering the time from March to October, 1888, is added.

In April, 1888, the annual meeting of the contributing members was held and the board of directors for the ensuing year was elected, which organized with the following officers: President, Brainard H. Warner; vice-president, Benjamin H. Warder; treasurer, Charles J. Bell; secretary, H. Randall Webb.

In July we received from Congress an appropriation of \$12,250 for the purpose of paying off the bonded indebtedness of the institution. This has been done; but owing to the fact that the sum did not amount to much more than the principal of the bonds, and that there was a large amount of unpaid interest, which had to be raised before the Treasury Department would turn over the money, we have not as yet fully realized the benefit of the appropriation.

We still owe \$250, the remains of a debt incurred for the erection of a rear building to the hospital, which contains the drug room and operating room. There is considerable difficulty experienced at times in paying our running expenses; the regular monthly expenses reach now

nearly \$300, of which the District government gives \$200; and for the remaining \$100 we depend upon voluntary contributions, which are by no means the most reliable source of income.

Since April, 1888, the following sums of money have been received by the secretary and paid to the treasurer:

From voluntary contributions.....	\$325. 00
From Metzrott, use of party wall.....	266. 44
From District government	1, 400. 00
From other sources	42. 43
Total.....	2, 033. 87

If there is any further information in regard to the institution which is needed I will be most happy to furnish it, and if a more detailed statement of our expenditures is required I can easily procure it from the treasurer.

I am, very respectfully, your obedient servant,

H. RANDALL WEBB,
Secretary.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

THE CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.

This institution has been in operation for sixteen years. It is incorporated and is designed to fill a double purpose, as its name signifies.

Two properly qualified physicians live in the hospital building (No. 521 Twelfth street), who receive and treat, without charge, any sick or injured person who is brought to or applies at the hospital at any hour of the day or night. In addition to this, two members of the attending staff are present at the hospital every afternoon except Sunday. They examine and prescribe for all those who need, but are unable to pay for, the advice of a physician. To such persons all necessary medicines, surgical apparatus, and the like are furnished free of cost.

It is under the management and control of the following board of directors, composed of laymen and physicians:

Board of directors.—Brainard H. Warner, president; Edward Temple, vice-president; Eugene Morgan, treasurer; H. Randall Webb, secretary; John A. Baker, Calderon Carlisle, Samuel Cross, Charles C. Duncanson, William E. Edmonston, William Galt, W. M. Galt, E. Kurtz Johnson, John G. Judd, B. U. Keyser, Henry L. Plum, Frank B. Smith, B. H. Warder.

Consulting staff.—Dr. A. Y. P. Garnett, Dr. N. S. Lincoln, Dr. J. E. Morgan, Dr. D. W. Prentiss, Dr. Smith Townshend, Dr. J. Tabor Johnson.

Attending staff.—Dr. Swan M. Burnett, Dr. George W. Johnston, Dr. William Lee, Dr. George L. Magruder, Dr. T. Morris Murray, Dr. J. Ford Thompson.

The duties of the attending staff are as follows:

Diseases of children.—Monday and Thursday, at 1 p. m.: Dr. George L. Magruder; assistant, Dr. A. A. Snyder.

Diseases of women.—Monday and Thursday, at 2 p. m.: Dr. George Woodruff Johnston; assistant, Dr. R. S. Hill.

Diseases of the eye and ear.—Tuesday and Friday, at 1 p. m.: Dr. Swan M. Burnett; assistant, Dr. T. A. Taylor.

General and nervous diseases.—Tuesday and Friday, at 2 p. m.: Dr. William Lee; assistant, Dr. William R. Butler.

Diseases of the throat and chest.—Wednesday and Saturday, at 1 p. m.: Dr. T. Morris Murray; assistants, Drs. T. Dudley Morgan and J. H. Mundle.

Surgery and skin diseases.—Wednesday and Saturday, at 2 p. m.: Dr. J. Ford Thompson; assistants, Drs. L. L. Friedrich and D. K. Shute.

Resident physician, Dr. James J. McKone; assistant resident physician, Dr. William T. Gill.

The following is a list of the employes of the hospital and the salaries paid them: Resident physician, \$25 per month and board; assistant resident physician, no salary and board; druggist, \$25 per month; janitress and assistant, \$37 per month; resident medical student, no salary; the members of the attending staff and their assistants serve without pecuniary compensation.

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The following table of figures shows the amount of work done in the hospital since April, 1887, the number patients treated, and the expenses incurred by the institution in consequence thereof:

	New cases.								Total visits.	Emergency cases.	Prescriptions compounded.	Expenses.	
	White.				Colored.								
	Adults.		Children.		Adults.		Children.						Total.
	M.	F.	M.	F.	M.	F.	M.	F.					
1887.	M.	F.	M.	F.	M.	F.	M.	F.					
April	56	38	10	9	107	196	40	55	511	1,230	20	1,587	\$212.98
May	71	46	13	5	115	194	38	64	436	1,151	57	1,484	230.50
June	54	50	8	6	133	243	37	43	574	1,343	41	1,675	225.18
July	83	45	10	15	96	216	38	34	537	1,135	57	1,520	226.41
August	93	45	16	14	108	202	34	54	576	1,434	67	1,720	230.68
September	88	32	9	6	135	168	30	36	504	1,332	77	1,720	231.25
October	50	79	13	10	113	116	32	34	447	1,400	86	1,700	289.92
November	73	55	4	10	84	120	13	36	385	2,284	72	1,575	243.40
December	112	45	13	12	120	138	22	30	492	1,240	61	1,400	228.28
1888.													
January	111	55	12	6	178	138	11	10	710	1,400	53	1,825	346.17
February	73	37	7	11	145	142	22	27	621	1,553	49	2,123	286.95
Total	864	527	115	104	1,334	1,873	317	423					
Grand total									5,793	14,502	642	18,229	2,651.72

New patients are those who have not been to the hospital before the month in which they are registered.

The number of visits in any month designates the number of times the patients, whether new or old, visited the hospital and received attention.

A perusal of the foregoing must convince you of two things: First, that the Central Dispensary and Emergency Hospital is performing a great service to the community in relieving a large amount of suffering among the poor. Every patient who applies for aid is first closely questioned, and if found to be able to pay for medical services, is treated once and told to apply elsewhere in future. Second, that the institution, in proportion to the number of its patients, is managed most economically. Taking these things into consideration, you can be assured that any contribution of yours will be made to do the greatest possible good.

Contributing members.

Audenried, Mrs. Mary.
 B. & P. R. R. Co.
 Baker, John A.
 Berry, Mrs. C. V. R.
 Bell, Charles James.
 Beveridge, M. W.
 Burnett, Dr. S. M.
 Bayne, Dr. J. W.
 Birge, Harry C.
 Brooks, E. F.
 Carrington, Campbell.
 Cornwell, G. G.
 Clarke, Dr. D. B.
 Cox, Judge Walter S.
 Cross, Samuel.
 Carlisle, Calderon.
 Coleman, Mrs. Sarah H.
 Clymer, Mrs. Mary S.
 Clymer, Miss M.
 Cassels, Col. John.
 Cassels, Mrs. John.
 Droop, Edw.
 Duncanson, C. C.
 Dauphin, Dr. M. A.
 Detweiler, F. M.

Edmonston, Charles.
 Edmonston, W. E.
 Emmons, George E.
 Fisher, Thomas J.
 Fitch, James E.
 Fox, A. F.
 Fox, Robert C.
 Galt, William.
 Galt, W. M.
 Glover, C. C.
 Garnett, Dr. A. Y. P.
 Hagner, Dr. C. E.
 Hagner, Mrs. A. B.
 Holtzman, R. O.
 Hutchins, Stilson.
 Hamilton, Dr. John B.
 Heurich, Ch.
 Hartigan, Dr. J. F.
 Johnson Brothers.
 Jackson, E. E., & Co.
 Judd, J. G.
 James, Charles A.
 Johnson, J. Taber, M. D.
 Jackson, W. B.
 Johnston, James M.

Johnston, George W.
 Johnston, Miss M. B.
 Keyser, B. U.
 Lenman, John T.
 Lansburgh Brothers.
 Lambie, James B.
 Lincoln, Dr. N. S.
 Lee, Dr. William.
 Leipold, R. H. T.
 Little, A., & Sons.
 Milburn, John A.
 Magruder, John H.
 Mohun, Francis B.
 Mohun, Thomas B.
 Meade, S.
 Morgan, Eugene.
 McCarty, Mrs. D.
 Marsh, Mrs.
 Martin, C. C.
 McKee, Mrs. D. R.
 McKenney, J. H.
 McKenney, Mrs. J. H.
 Mattingly, W. F.
 Morgan, Dr. E. C.
 Morgan, Dr. James E.

Magruder, Dr. G. L.	Staples, O. G.	Walker, David.
Muncaster, Dr. S. B.	Saks, A., & Co.	Willard, C. C.
Murray, Dr. T. Morris.	Smith, Thomas W.	Waggaman, Thomas E.
Noyes, C. S.	Stellwagen, E. J.	Waite, Miss Mary.
Noble, Dr. H. B.	Swain, H. C.	Wendell, Mrs. Mary.
Perry, Mrs. Seaton.	Smith, F. H.	Wolf, S.
Pilling, Fred K.	Swartzell, G. W. F.	Warder, B. H.
Plum, H. L.	Smith, Frank B.	Williams, Washington B.
Prentiss, Dr. D. W.	Thompson, Dr. J. F.	Warner, B. H.
Roessle, T. E.	Thompson, W. S.	Washington Gas-Light Co.
Riggs, E. F.	Temple, Edw.	Webb, H. Randall.
Rogers, John M.	Towles, H. O.	White, G. H. B.
Russ, Mrs.	Tozalin, Mrs. Lydia.	Whyte & Overman.
Stephenson, W. J.	Woodward & Lothrop.	The Real Estate Title Co.

Report of new patients treated at the Central Free Dispensary during eight months.

	Total number of visits.	Number of emergency cases.	Prescriptions compounded.	Expenses.	New patients.								Total number new patients.
					White.				Colored.				
					Male.		Female.		Male.		Female.		
					Adults.	Children.	Adults.	Children.	Adults.	Children.	Adults.	Children.	
1888.													
March.....	1,539	62	2,157	\$225.55	79	9	43	2	119	28	161	37	675
April.....	1,534	84	1,990	274.89	60	16	38	11	95	45	186	56	507
May.....	1,736	51	2,412	245.43	51	11	38	10	121	56	189	45	778
June.....	1,588	87	2,304	318.96	73	15	52	7	140	61	191	106	751
July.....	1,444	54	2,173	287.76	89	14	54	19	163	44	310	75	778
August.....	1,384	92	2,206	271.67	90	12	61	13	225	47	273	57	836
September ..	1,562	72	2,073	282.67	102	14	68	19	183	41	252	71	760
October.....	1,820	52	2,406	264.49	103	17	58	14	179	49	281	43	744

Central Dispensary and Emergency Hospital.

RECEIPTS.

1887.		
July 1.	Balance on hand	\$549.87
	District appropriation	2,400.00
	Private subscriptions	765.28
	Total	3,715.15

DISBURSEMENTS.

Salaries and wages.....	1,518.00
Drugs	1,100.60
Interest on bonded debt	612.50
Taxes	48.38
Sundries, including fuel, lights, etc.....	397.54
Balance (bank) July 1, 1888	38.13
Total.	3,715.15

C. J. BELL,
Treasurer.

220 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Statement of payments made by C. J. Bell, treasurer, for bonds, Central Dispensary and Emergency Hospital, as on September 15, 1888.

Trustee.	Principal.	Interest.	Total.
Eugene Kelly	\$1,000.00	\$12.50	\$1,012.50
C. C. Glover	1,000.00	62.50	1,062.50
H. L. Plum	200.00	2.50	202.50
G. L. Magruder	1,000.00	37.50	1,037.50
John A. Baker	1,000.00	37.50	1,037.50
Cameron Carlisle	1,000.00	87.50	1,087.50
John T. Lenman	2,300.00	28.75	2,328.75
Thomas J. Fisher	500.00	25.00	525.00
Elizabeth L. Dunn	1,000.00	25.00	1,025.00
C. Heurich	1,000.00	37.50	1,037.50
B. H. Warner	843.75	25.00	868.75
			12,250.00
The amount appropriated by Congress was \$12,250, which has all been used as per statement above. The amount due on the bonds on September 15 was, principal			12,000.00
One year nine months' interest, \$1,050, less amount already paid and provided for by deposits to interest account in National Bank of Washington \$750			300.00
			12,300.00

Leaving a deficit of \$50, which is due B. H. Warner, he having surrendered his bonds.

H 16.

REPORT OF THE HOUSE OF THE GOOD SHEPHERD.

The House of the Good Shepherd was opened in Washington, D. C., August 16, 1883, by a delegation of Sisters of the Good Shepherd from Baltimore, on Ninth street, between H and I streets, in the dwelling-house of the late Admiral Smith, donated for the purpose by his daughter, Miss Annie E. Smith, still residing in Washington. A small addition was then added to the old building, and the house and grounds repaired and made as much as possible to suit the purposes for which intended.

The special object of the institution is the reformation of fallen and abandoned women, with a department annexed for the preservation of young girls in danger of being led to ruin, and children without the proper parental care. The want of room has so far prevented the sisters here from opening this much-needed preservation department (which must always be distinct from the reformatory) and compelled them to confine their work to the primary object of receiving and sheltering the poor unfortunate and abandoned young girls and women whom the world scorns so mercilessly and to many refuses a shelter, and happy for them if they direct their steps to the home always ready to receive them regardless of nation or creed, or whether brought there by friends, city officials, or apply voluntarily. To be admitted into the House of the Good Shepherd it is enough to know they have strayed from the path of virtue and desire to reform.

Soon after the opening of the house applications were made and inmates received, so that when the first new year dawned upon the institution more than a dozen bright faces, with former happiness more or less restored, were to be seen within its sheltering walls. The number then increased so rapidly it was feared the want of room would in a short time prevent the reception of all the applicants, so an appeal was made to Congress and \$5,000 appropriated, and subsequently the

following year \$3,000 more was given, but all conditionally for enlarging the building or for purchasing new ones; but as the present locality was too contracted for the erection of a new addition, the money still remains in the Treasury awaiting the realization of the hopes of the sisters and their friends of soon purchasing a lot suitable and to build thereon a house sufficiently large for the carrying on of the good work in its various departments, and if an appeal could find favor before the public, or in the hearts of some kind, charitable benefactors, we surely make it with all the earnestness imaginable and with all the inducements that can be urged for the saving of many a poor soul, as well as preserving numberless children without the proper parental care or friends to raise them in a Christian manner and save them from subsequent ruin.

The debt incurred at the outset for the new addition and repairs was partly paid off by the proceeds of a lecture and several donations. The balance remains unpaid, since, as we said, the money appropriated could not be used for the liquidation of debts. Since then a few small donations have from time to time been received for the expenditure of some needed repairs and other incidental expenses, with frequent donations of groceries and provisions from the kind benefactress and other good friends of the institution. Besides these helps the sisters have no other resources to rely upon for the maintenance of the house and the support of the inmates but their work, consisting of all kinds of needle-work, both fine and shop work; but as the latter can not be obtained in the District, it incurs the expense and trouble of shipment from and to Baltimore, and altogether yields but small profits, but as most of the inmates at their entrance know but little about sewing, this kind of work must, if possible, be kept on hand to train them to the use of the needle, and gradually lead them to the finer work, as well as to keep them occupied—a very essential point in their reformation.

With the exception of the \$8,000 named and reserved for building purposes, the institution has never received an annual or other appropriation from the District, though they frequently and very willingly receive all the subjects brought to them by the Commissioners or other District officials.

Since the commencement of the institution the number of inmates received have averaged per annum about 25; making, in all, 129. Of these, 54 have returned to their friends, 5 have been provided with homes or situations, 26 have left of their own accord, and 44 remain at present.

With a few exceptions, all those received were from the District; some of them remaining since its early commencement, others two or three years, and but few leaving under a year. Most of those who left went forth with every sign of reformation, and many instances could be cited of parents and friends made happy again by the reform of their strayed ones.

The present house is, alas! too small for the admission of any more applicants, excepting to fill vacancies; consequently strenuous efforts are being made to secure, as we said, a larger and more suitable location to build thereon sufficiently to carry on the work of the institution in its fullest extension, particularly to meet the great need there is now of protectories to save the many young girls and children adrift and in imminent danger of falling into a life of shame—trusting, indeed, these efforts will be seconded and pushed forward by the city Commissioners and other officials of the District, as well as many kind, good friends,

to whose charity we appeal with every hope of finding a favorable response in their hearts.

As nearly as can be estimated the cost per capita yearly for each inmate is from \$75 to \$80, but as their number as well as the expenses are always more or less increasing, we could not state definitely the expenses of the next fiscal year.

We subjoin statistics of the receipts and expenses of the current year:

Receipts.

Donations	\$388.08
Shop-work	966.92
Fine sewing	1,135.06
	2,490.06

Expenditures.

Debt remaining	\$
Repairs	65.10
Bread, meat, groceries, and provisions	1,194.13
Shoes and clothing	439.31
Fuel and gas	204.12
Sewing-machines	39.43
Medicines	52.48
Incidental expenses	50.75
	2,045.32

Respectfully submitted.

Rev. JAMES F. MACKIN,
President.
Sr. AUGUSTINE McLAUGHLIN,
Superioress.

I.

REPORT OF THE ATTORNEY.

OFFICE OF THE ATTORNEY OF THE
DISTRICT OF COLUMBIA,
Washington, October 1, 1888.

GENTLEMEN: I submit herewith a brief review of the business of this office for the year ending June 30, 1888:

As uniformly of late years, I have to report a noticeable increase in the labors of the office, both as respects business in the courts and advisory duties. These latter are every year becoming of more and more importance, and involve daily demands at times almost embarrassing to the administration of the office. The increase of subjects committed by Congress to your care, and the consequent increase of questions requiring prompt solution, call every year for more and more constant participation by this office in matters of administration, and furnish in great part ground upon which, as hereinafter set forth, increased facilities are requested.

In the Supreme Court of the United States, apart from the usual routine work of perfecting appeals, preparing causes for hearing, and the like, two cases of special importance to the District have been disposed of. The case of the District against the Baltimore and Potomac Railroad Company grew out of an accident to one Barnes, at the company's tunnel on K street southeast in this city. Barnes sued the District and recovered from it a judgment for \$3,500, and the District, having paid the judgment, sued the company for the amount thereof, with interest and costs, upon the ground that the primary negligence in the premises was that of the company. Judgment for the District was rendered in the supreme court of the District, which on appeal was affirmed by the general term of that court. The company appealed to the Supreme Court of the United States, where its appeal was dismissed for failure to file the record and docket the cause in due season. The necessity of this action is regretted, because the question involved, namely, that of liability over to the District of persons or corporations guilty of the primary negligence in cases of this sort, is one of great importance; and while such liability has been uniformly asserted by the supreme court of the District, the Supreme Court of the United States has, as yet, in no District case spoken on the subject, and it was confidently believed that in this case, had it gone to hearing on the merits, the question would have been finally settled by that court in favor of the District's contention.

The case of the District of Columbia against McBlair originated in 1869 in the form of a proceeding among the heirs of John Gadsby for the sale of the lots of ground on which the Western Market, so called, in the city of Washington, now stands. By decree of the supreme

court of the District, in 1872, the lots in controversy were sold, and afterward purchased by the District from the purchaser under the court's decree. By reason of irregularities in the transaction and infirmities in the original proceedings, the District failed to obtain title or recognition of its rights in the premises. By decree of the supreme court of the District in general term, in 1876, the rights of the District seemed definitely to be denied, but from a subsequent decree of the special term, in 1880, directing a sale of the property, notwithstanding the claims of the District, in the premises, the District appealed, and this appeal, coming on to be heard by the general term was also decided adversely to the District. From this action appeal was taken to the Supreme Court of the United States, which sustained the rights of the District, and decreed accordingly in its favor. The result of this adjudication saves to the District not only the lots in question, but also the valuable market building erected thereon pending the litigation, besides exempting the District from the liability, which it would otherwise have been under, for intervening rent during its occupation of the premises. This is a source of especial satisfaction to the office, as in the past sixteen years, until this decision, every adjudication in the case was adverse to the rights of the District, and its case was generally thought hopeless.

In the supreme court of the District one hundred and thirty-nine cases were finally disposed of, of which nine were in general term, four in equity, thirty-six in the circuit court, and ninety in the criminal court. In this enumeration no account is taken of cases partially disposed of or advanced towards final disposition.

During the same period one hundred and forty-two new cases were instituted, to which the District, or its officers, were parties; of which fifty-four were commenced on the law side and fourteen in equity, and seventy-four were docketed on the criminal side of the court. In this enumeration no account is taken of the cases in the police court, which are the subject of report by the special assistant attorney, submitted herewith.

Among the cases disposed of in the general term may be specially mentioned the following:

The United States *ex rel.* Hamman against Ludlow, late engineer commissioner of the District, which was an application for a mandamus to compel the issue of a plumbing permit. In this case the court held that, under the act of Congress authorizing plumbing regulations, the Commissioners were without authority to prescribe the examination and registration of plumbers as a condition to their receiving permits for work.

The cases of Francis A. Wood and others against the District, some fifty in number, were applications for certiorari to inquire into certain special taxes of the late corporation of Washington and special assessments made by the late board of public works. In one respect these litigations resulted unfavorably to the District, in that the petitioners have been enabled, by pointing out clerical errors and insufficiencies in certain of the assessments, to escape liability therefor; but in the main the result has been of very great advantage to the District, in that the court gave a sweeping and far-reaching declaration of the curative effects of the recent acts of Congress of 1878 and 1879 upon the assessments made by the board of public works. This latter outcome of the case has already resulted in the payment to the District of very large sums on account of these special assessments, and make certain the District's right to enforce the collection of all others of a similar character, involving in all a sum not far short of a quarter of a million of dollars.

The case of Martin and others against the District was an attack upon the water rates established by the Commissioners. The court sustained the water rates as established, and decided that the power of the Commissioners in respect of prescribing and enforcing the collection of those rates is of the most comprehensive character, and the result of the litigation has been to put at rest a question long agitated.

The case of Birth against the District of Columbia was also one of importance. The decision of the court, which was favorable to the District, set at rest the question of the date from which interest is to be calculated on special assessments made by the late board of public works and afterwards revised by the Commissioners under the acts of 1878 and 1879, above mentioned. The decision was that interest runs in favor of the District upon the revised amount of the assessment from the date of the original assessment and not from the date of revision, as has long been contended.

The case of Wall against the District presented another phase of the tax-sale litigations in which the District has of late been so much involved. In the case of Brewer, mentioned in my last report, the decision of the court was that a tax deed made in pursuance of the sale for the unpaid taxes of a certain year passed the property sold to the purchaser discharged of the liens of all taxes remaining due and unpaid at the time of the sale. In the case of Wall, the court held, distinguishing the Brewer case, that when prior to a sale for taxes, under which a deed is claimed, the property involved had already been offered at a delinquent-tax sale and bid off in the name of the District, the District thereby acquired a statutory lien upon the property on account of the prior delinquent taxes, enforceable only in the supreme court of the District in the manner prescribed by the act of Congress of March 3, 1877; and that, accordingly, the collector of taxes was not required to, and indeed could not, at the subsequent offering, include such prior delinquent taxes in his advertisement of sale, and sell such property to an individual so as to affect the District's rights as to such lien. The result of this decision is to save to the District, as against the apparent scope of the Brewer decision, very numerous claims for delinquent taxes on account of which property has been sold in former years and bid off in the name of the District. The case has been appealed to the Supreme Court of the United States, where it is now pending.

In the case of Mackall against the District, the claim of Mackall to exemption from liability on account of a special assessment upon the ground that the United States had already in part paid the District on account of the same improvement for which he had been assessed was denied. This is another form of the principal question made by the street railway companies in the suits in which the District recovered against them the cost of paving their tracks, and which are now pending on appeal in the Supreme Court of the United States.

The case of the Chesapeake and Potomac Telephone Company against the National Safe Deposit Company and the District involved the double question of the right of the Commissioners to license the laying of electric wires under the sidewalks of the city and of the private lot-owner to the vaulting privilege in the same space. The court decided, in conformity to the contention of this office, that the vaulting privilege is paramount, and that the Commissioners had, under then existing law, no authority to authorize the laying of wires in such manner as to interfere with that privilege. (See special report of the case.)

As the cases disposed of in the other branches of the court were determined at special term and, when not insignificant, have been carried

up for consideration by the higher branch of the court, further notice of them is unnecessary.

It is a source of satisfaction that there has not been during the year any decision adverse to the District of such importance as to call for appeal to the Supreme Court of the United States.

The appeals from the police court to the criminal court have, during the year, been promptly disposed of, and for the first time in many years the business of this office in the criminal court has been kept down to a volume easily within control. It is believed that under existing conditions, which promise to continue, no further cause of complaint of delay in hearing these causes by the upper court will arise. Among the cases considered by the criminal court on appeal from the police court but one calls for especial mention—the case of the District against Brosnan for keeping an unlicensed bar. The question presented in this case is as to the right of the Commissioners to recall a license for the sale of liquor improvidently issued, and while the decision of the court was favorable to the contention of this office that such right exists, the case has been transferred to the general term where, it is still pending.

In my last report I called attention to the absence of any existing law providing for condemning a right of way for a sewer or public alley. The same condition of things there reported continues, and attention is again asked to this defect.

The question involved in the Blake case, mentioned in my last report, namely, whether the Commissioners have authority to lay out or widen a road in the county, is believed to have been solved by an appropriation by Congress of a sum of money available for the payment of damages in such cases, which, if the view taken of that appropriation by this office be correct, removes the objection found by the court to the exercise of such authority, and a repetition of such appropriation for future years will doubtless result in securing to the Commissioners the much-needed power to extend the growth of the city and the improvement of the District.

In my last report I called attention also to the necessity of some provision relating to the commitment of insane persons to the Government Hospital for the Insane. By appropriating a sum of money to pay the expenses of the necessary proceedings in such cases, Congress has in large part remedied the situation; but no change, which is much needed, has been made in the law providing for the commitment of non-indigent dangerous insane, and the apprehension and confinement of the alleged insane prior to and during the necessary proceedings to try the question of their sanity. I beg to ask the attention of the Commissioners anew to what I said in my last report on this subject. It really presents an emergency that ought not to be longer unprovided for.

The number of cases in which it is necessary to try and commit the insane is surprisingly large. During the years ending June 30, 1887, and June 30, 1888, the number of these persons averaged one hundred and ninety-six each year, and during the portion of the current year which has already elapsed the proportionate increase has been very great. It may be confidently asserted that the number this year will average not less than four, if not five, a week. When it is considered that this involves the almost daily trial by this office of one of these cases; that in every case a petition must first be prepared and filed, and return of the inquisition made and confirmation thereof procured, the labor involved is apparent.

In view of this increase in the duties of the office, which has come within the past year and promises to grow, and in further view of the increase of the advisory duties of the office and the general litigation of the District growing out of the expansion of the operations and increased functions and jurisdiction of the Commissioners, attention is earnestly requested to the estimates submitted by this office. Those estimates, which have already been placed in your hands, include an increase in the allowance for office rent and salaries, particularly the salaries of the attorney and assistant attorney. The evolution of the office of attorney of the District was pointed out in my last report, but it was neglected there to point out that, in addition to the increase in scope of the duties of the office there mentioned, the office has also succeeded to the duties formerly devolving upon the attorneys of the health, police, and fire departments, all of which were formerly distinct, but the supervision and business of which have since been devolved upon the Commissioners.

It accordingly happens that, in addition to discharging the duties formerly devolving upon the respective attorneys of the corporation of Washington, the corporation of Georgetown, and the levy court, the attorney of the District now discharges also the duties formerly falling to the attorneys of the respective departments above named. These combined duties, involving as they do advice to these several departments, in addition to the Commissioners, and the defense of their officers in the discharge of their duties, must emphasize what was said of this office in my last report, namely, that "it has assumed quite the proportions of a department of the District government and its exactions wholly negative all idea of other professional engagements. Under these circumstances the District is asked to discharge the rent of the offices now in use which are wholly given up to the purposes of the District, and estimates are submitted for \$5,000 for the attorney and \$3,500 for the assistant attorney, at less than which figures it is confidently urged it will be impossible to procure counsel equal to the work, in the face of the plain fact that attention to the duties of the office must be in effect exclusive."

The report of Mr. Padgett, special assistant attorney, showing his labors and their result in the police court, is appended; and my estimates heretofore submitted, and which include also an increase for the other members of the office than the attorney and assistant attorney, who are equally involved in the increase of duties above mentioned, are repeated as follows:

ESTIMATES.

Attorney.....	\$5,000
Assistant attorney	3,500
Special assistant attorney	1,400
Clerk.....	1,400
Messenger	300
Rent of office	480
Contingent expenses.....	500

Respectfully,

A. G. RIDDLE,
Attorney District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

OFFICE OF THE ATTORNEY FOR THE
DISTRICT OF COLUMBIA,
Washington, D. C., October 1, 1888.

SIR: I have the honor to submit herewith a full report of the cases tried in the police court from July 1, 1887, to June 30, 1888, inclusive:

Number of cases tried	8,430	Suspended	30
Convicted	7,770	Nolle prosequi	94
Dismissed	498	Amount of fines imposed	\$43,359
Continued	38		

The cases were distributed among the following different offenses:

Bar open after hours	11	Selling liquors to soldiers	1
Barber-shop open on Sunday	3	Selling to minors	2
Barking dog	1	Selling liquors on Sunday	3
Bathing in river	13	Selling on Sunday	4
Bicycle without light	2	Selling potatoes by measure	5
Building fire in street	1	Setting off fire-crackers	12
Chickens at large	5	Shooting on Sunday	1
Concealed weapons	169	Sounding horn	2
Contempt of court	7	Sunday bar	99
Cow in yard	2	Throwing stones	74
Cruelty to animals	348	Trespass on park	160
Destroying lamp	4	Tying horse to tree	3
Destroying private property	97	Unlicensed auctioneer	1
Destroying public property	3	Unlicensed bar	89
Disorderly conduct	3,021	Unlicensed beer garden	4
Disorderly conduct in church	12	Unlicensed billiard table	1
Disorderly conduct in county	253	Unlicensed book agent	1
Disturbing school	1	Unlicensed cars	1
Disorderly in Georgetown	229	Unlicensed cattle broker	1
Driving cattle through streets	10	Unlicensed eating-house	4
Driving over pavement	33	Unlicensed entertainment	10
Driving through funeral	8	Unlicensed hacks	5
Enticing prostitution	2	Unlicensed hotels	2
Excavation without light	7	Unlicensed liquor dealers	8
Excavation without permit	8	Unlicensed livery-stable	5
Fast driving	69	Unlicensed junk dealer	1
Female dog at large	1	Unlicensed pawnbroker	7
Firing pistol in street	27	Unlicensed peddler	3
Fighting dogs	3	Unlicensed picnic	
Gift enterprise	1	Unlicensed produce dealer	38
Indecent exposure	198	Unlicensed real-estate agent	1
Injuring trees	38	Unlicensed wagon	1
Interfering with food inspector	1	Using street washer	1
Interfering with poundmaster	1	Vagrancy	1,533
Nuisances	27	Violating building regulations	119
Obstructing alley	5	Violating cart law	24
Obstructing pavement	28	Violating civil rights law	3
Obstructing street	50	Violating hack law	41
Occupying street	9	Violating livery-stable law	2
Placing rubbish in street	7	Violating junk dealers' law	1
Playing ball in street	43	Violating pawnbrokers' law	2
Profanity	1,116	Violating police regulations	206
Refusing to assist officer	4	Violating snow law	23
Refusing to pay hack-hire	8	Wasting Potomac water	50
Selling liquors to minors	8		

Very respectfully,

JAS. E. PADGETT,
Special Assistant Attorney District of Columbia.

A. G. RIDDLE, Esq.,
Attorney District of Columbia.

J.

REPORT OF THE OPERATIONS OF ENGINEER DEPARTMENT.

UNDER THE DIRECTION OF MAJ. CHARLES W. RAYMOND, CORPS OF ENGINEERS,
U. S. ARMY, ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

A.—REPORT OF CAPT. THOMAS W. SYMONS, CORPS OF ENGINEERS, U. S. ARMY, ASSISTANT TO THE ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

WASHINGTON, D. C., *September 29, 1888.*

MAJOR: I have the honor to submit the following annual report of the operations of, and concerning, the divisions of the engineer department of which I have been given charge.

Until March 30, 1888, I had charge of the water, sewer, street, lighting, and harbor divisions. On the above date the water and sewer divisions were transferred to Capt. J. L. Lusk, and I was given general charge of highways, streets, avenues, and alleys, roads, bridges, railroads, telegraph and telephone lines, and street lighting, and the operations of the parking commission.

My report is concerning the divisions of which I now have charge.

The report covers the operations during the whole fiscal year 1887-'88, most of which were conducted under the general charge of Capt. Eugene Griffin.

STREET IMPROVEMENTS.

Appropriation \$350,000, distributed as follows:

Georgetown	\$45,000
Northwest	140,000
Southwest	50,000
Northeast	50,000
Southeast	65,000

PAVEMENTS.

The character and extent of the street pavements on July 1, 1888, are shown in the following table:

Description.	Square yards.	Miles.	Per cent.
Standard sheet asphalt.....	751,116	31.8	14.55
Coal-tar distillate	869,180	37.5	16.87
Asphalt block	117,164	5.2	2.20
Stone block (granite or trap)	534,718	21.5	10.35
Rough stone (cobble or rubble)	486,483	12.4	9.45
Macadam	224,012	8.2	4.34
Gravel	664,557	34.0	12.87
Wood	11,403	.6	.22
Unimproved	1,504,167	82.3	29.16
Total	5,162,820	233.4	100.00

The nature, distribution, and cost of the various improvements made from the appropriation of \$350,000, are shown in the following table:

Section.	Character of improvements.	Square yards.	Cost of material used.	Cost of contract work and inspection.	Total cost of improvements.	Expenditures.
Georgetown:						
Thirty-first street, from K to M	Distillate pavement, curb and sidewalks	1,208.70	\$1,005.45	\$4,754.14	\$5,759.59	\$33,835.82, contract work and inspection. \$9,734.79, material purchased. \$116.40, miscellaneous expenses.
Q street, from Thirtieth to Valley	do	3,934.37	1,350.10	10,801.25	12,151.35	
Thirty-fifth street, from P to Q	do	1,558.04	797.40	4,752.75	5,550.15	
Dumbarton avenue, from Twenty-eighth to Thirty-second	do	3,608.80	413.86	10,135.95	10,549.81	
Q street, from Valley to Thirty-second	do	1,066.70	710.81	3,391.73	4,102.54	\$127,928.04, contract work and inspection. \$10,213.79, material purchased. \$274.03, miscellaneous expenses.
		11,385.61	4,277.62	33,835.32	38,112.94	
		4,758.50	1,662.92	11,494.79	13,158.71	
		1,411.03	206.85	3,411.08	3,617.93	
Northwest:						
Q street, from Sixth to Rhode Island avenue.	Distillate pavement, curb and sidewalks	4,758.50	1,662.92	11,494.79	13,158.71	\$127,928.04, contract work and inspection. \$10,213.79, material purchased. \$274.03, miscellaneous expenses.
R street, from Twenty-first to Connecticut avenue.	do	1,411.03	206.85	3,411.08	3,617.93	
Eighth street, from R to S	do	2,063.20	160.19	5,113.18	5,273.37	
Twelfth street, from Rhode Island avenue to Vermont avenue.	do	2,304.00	283.40	7,918.38	8,201.78	
Q street, from Seventeenth to Connecticut avenue.	Setting curb and laying brick sidewalks		1,842.45	809.22	2,651.67	\$127,928.04, contract work and inspection. \$10,213.79, material purchased. \$274.03, miscellaneous expenses.
Seventeenth street, from P to Q	Distillate pavement, curb and sidewalks	1,765.30	51.80	5,558.22	5,610.02	
Eighteenth street, from P to Q	do	1,763.70	350.85	5,604.53	5,955.38	
Tenth street, from R to S	do	1,992.40	1,286.80	5,411.25	6,698.05	
Twenty-first street, from Corcoran to R.	do	988.15	401.00	2,379.14	2,780.14	\$127,928.04, contract work and inspection. \$10,213.79, material purchased. \$274.03, miscellaneous expenses.
New Jersey avenue, from M to Boundary.	do	18,126.95	7.07	38,795.17	38,802.24	
North Capitol street, from Massachusetts avenue to E.	do	1,928.20	61.84	4,215.45	4,277.29	
North Capitol street, from I to K	Setting curb and laying brick sidewalks		39.55	172.19	211.74	
E street, from New Jersey avenue to North Capitol.	Distillate pavement, curb and sidewalks	2,494.01	1,012.58	5,945.79	6,958.37	\$127,928.04, contract work and inspection. \$10,213.79, material purchased. \$274.03, miscellaneous expenses.
F street, from New Jersey avenue to North Capitol.	do	2,962.20	1,327.00	7,497.93	8,824.93	
G street, from New Jersey avenue to North Capitol.	do	3,802.29	1,319.89	9,598.53	10,918.42	
Massachusetts avenue, from New Jersey avenue to North Capitol.	do	5,143.20	328.59	14,003.10	14,331.69	
		51,503.13	10,343.78	127,928.04	138,271.82	

Southwest: G street, from Third to Fourth and a half. E street, from Third to Virginia avenue. C street, from First to Fourth and a half. H street, from Third to Fourth and a half. D street, from Third to Fourth and a half.	Grading, setting curb, and sidewalks.	6,203.10	1,291.03	592.23	2,183.26
	Grading, graveling, curb and sidewalks.	1,580.45	860.93	8,760.08	10,534.95
	Distillate pavement, curb and sidewalks.	5,941.07	1,879.21	4,143.55	5,004.48
	do	2,407.37	1,253.24	16,398.73	18,277.94
	do	2,362.61	1,112.88	5,770.85	7,026.69
Northeast: Third street, from C to Maryland avenue. Second street, from C to Maryland avenue. Seventh street, from East Capitol to Massachusetts avenue. G street, from North Capitol to Second. A street, from Fourth to Seventh. B street, from Sixth to Massachusetts avenue. North Capitol street, from I to K. North Capitol street, from Massachusetts avenue to E. C street, from Sixth to Eleventh.	Asphalt block pavement, curb and sidewalks.	18,494.60	8,174.16	41,998.35	50,172.51
	do	1,090.20	46.15	2,982.28	3,028.43
	do	1,845.75	111.73	4,778.89	4,890.62
	do	3,339.57	147.68	9,001.60	9,549.28
	Grading, graveling, curb and sidewalks.	4,241.71	1,636.33	4,787.62	6,423.95
Southeast: A street, from Sixth to Seventh. Sixth street, from Pennsylvania avenue to E. Seventh street, from East Capitol to Pennsylvania avenue. Third street, from Pennsylvania avenue to C. B street, from Fifth to North Carolina avenue. Virginia avenue, from Third to Ninth.	Distillate pavement, curb and sidewalks.	4,205.84	110.76	10,758.32	10,869.08
	do	2,255.24	27.69	5,325.14	5,352.83
	Setting curb and laying brick sidewalks.	1,928.20	80.48	4,272.25	4,352.73
	do	.....	61.84	435.30	497.14
	Grading, setting curb, and laying brick sidewalks.	.....	2,686.96	936.34	3,623.30
	Asphalt block pavement, curb and sidewalks.	18,901.51	4,909.62	43,277.74	48,187.36
	do	2,390.86	50.77	6,130.05	6,180.82
	do	4,398.76	148.36	10,653.77	10,802.13
	do	7,223.00	1,176.16	20,964.22	22,140.38
	do	987.30	39.25	2,596.66	2,635.91
	Distillate pavement, curb and sidewalks.	3,154.16	229.92	7,863.43	8,093.35
	Grading, graveling, curb, and sidewalks.	16,819.20	4,514.99	8,618.94	13,133.93
	do	34,973.28	6,159.45	56,827.07	62,986.52
	do	.....	.....	.....	.....
	do	.....	.....	.....	.....

\$41,998.35, contract work and inspection.
\$7,824.42, material purchased.
\$79.74, miscellaneous expenses.

\$43,277.74, contract work and inspection.
\$6,407.98, material purchased.
\$123.56, miscellaneous expenses.

\$56,827.07, contract work and inspection.
\$7,857.39, material purchased.
\$122.10, miscellaneous expenses.

RECAPITULATION.

Section.	Amount.	Per cent.
Georgetown.....	\$43,570.61	12.4
Northwest.....	138,141.83	39.5
Southwest.....	49,880.77	14.3
Northeast.....	49,685.72	14.2
Southeast.....	64,684.46	18.5
Miscellaneous expenses.....	715.83	.2
Balance.....	3,320.78	.9
Total.....	350,000.00	100.00
Total expenditures.....	\$346,679.22	
Appropriation.....	350,000.00	
Balance unexpended.....	3,320.78	

The following table exhibits the cost of the improvements of streets and avenues in the different sections of the city, with the percentage of expenditures in each section since the establishment of the present form of government:

Year.	Georgetown.		Northwest.		Southwest.		Southeast.		Northeast.		General.	
	Amount.	Per ct.	Amount.	Per ct.	Amount.	Per ct.	Amount.	Per ct.	Amount.	Per ct.	Am't.	Per ct.
1878-'79 ..	\$40,892.78	9.4	\$311,427.21	71.8	\$19,882.85	4.6	\$47,706.74	11.0	\$13,730.14	3.2	.....	....
1879-'80 ..	11,931.82	7.1	96,213.15	56.9	15,185.90	9.0	28,115.93	16.6	17,637.69	10.4	.....	....
1880-'81 ..	20,920.80	7.0	223,416.18	74.5	30,129.96	10.0	8,187.74	2.7	17,629.17	5.7	.....	....
1881-'82 ..	14,159.07	5.0	168,478.97	60.0	46,618.20	16.5	35,073.35	12.5	16,906.24	6.0	.....	....
1882-'83 ..	11,240.09	3.7	223,790.44	73.2	20,495.57	6.7	47,214.88	15.4	2,987.44	1.0	.....	....
1883-'84 ..	18,165.29	5.3	175,632.66	50.8	60,319.16	17.4	26,543.53	7.7	65,149.01	18.8	.....	....
1884-'85 ..	21,945.13	8.2	116,671.93	43.9	48,700.73	18.3	42,193.51	15.9	36,503.06	13.7	.....	....
1885-'86 ..	29,951.92	11.1	116,142.67	44.4	27,599.29	10.5	60,404.41	23.1	28,472.91	10.9	.....	....
1886-'87 ..	8,516.45	3.2	146,241.20	55.1	35,338.63	13.4	16,009.81	6.0	59,268.62	22.3	.....	....
1887-'88 ..	43,570.61	12.4	138,141.83	39.5	49,880.77	14.3	64,684.46	18.5	49,685.72	14.2	.....	....
1888-'89 *	38,600.00	6.4	191,400.00	31.4	52,800.00	8.7	54,400.00	8.9	129,700.00	21.4	\$140,600	23.2
	258,993.96	7.2	1,907,556.24	53.2	407,151.06	11.4	430,534.36	12.0	437,690.00	12.2	140,600	4.0

* Appropriated.

As can be seen from the tables submitted, the only class of pavements laid during the year were coal-tar distillate and asphalt-block pavements.

The appropriation bill limited the price to be paid for concrete or asphalt pavements to \$2 per square yard, the following being the governing clause of the appropriation bill:

Provided, That under appropriations contained in this act no contract shall be made for making or repairing concrete or asphalt pavement at a higher price than \$2 per square yard for a quality equal to the best laid in the District prior to July 1, 1886, and with same depth of base.

The coal-tar distillate pavement laid under this provision was composed of a base of 4 inches of broken stone cemented together with coal-tar paving cement; on this was placed a binder course of 1½ inches, composed of finer stone heated in revolving heaters with coal-tar paving cement and hauled and spread upon the work and rolled and rammed while still hot, and a wearing surface-coat, of 1½ inches thickness, composed of coal-tar paving cement, or distillate (so-called), and asphalt mixed with sand, fine stone, cement, lime, and sulphur, spread, rammed, and rolled while hot.

The current specifications for this pavement are herewith as an appendix.

This pavement was well laid by the contractors, and gives very good satisfaction. It possesses a decided advantage over the old standard asphalt pavement in being monolithic in character; that is, in having a strong bond between all its different layers. The whole strength of the entire pavement is brought into force to resist strains upon it. Consequently we see nowhere in it the ugly and disagreeable wave surfaces which disfigure in many places the old standard asphalt pavements. There is no adhesion between the hydraulic concrete base of the old asphalt pavements and the surface coat, and consequently, under the influence of heat and travel, the surface coat is at liberty to move independently of the base, and waves are formed and the displaced material is further pushed out of place by the wheels of vehicles, and extensive repairs are rendered necessary. As the wearing surface becomes thin-

ner this evil is aggravated, while in the coal-tar distillate pavements the construction is such that the entire surface coat can be worn away without waves or holes appearing. This lack of adhesion is the serious defect in the old standard asphalt pavements, which is corrected in the coal-tar distillate pavements as laid last year.

On the other hand, the asphalt surface is far preferable to the coal-tar distillate surface, inasmuch as it does not become soft at as low a temperature, and is, consequently, less liable to deformation in hot weather, wears better, is more pleasing to the eye, and can not give off the black soot of the coal-tar as dust.

Recognizing the advantages and disadvantages of the two types of pavements, I had the honor to recommend to you for adoption for most of the work to be done under the current appropriations another type, which combines the advantageous features of both.

This was approved, and most of the pavements to be laid this year are of the new type, which will be hereafter described, but which, in brief, consists of the coal-tar cemented base and binder and an asphalt surface coat, all firmly bound together.

The asphalt-block pavements laid last year have developed remarkably good qualities. The method of manufacture and proportions of ingredients have been changed, so that to a very great extent defects in asphalt-block pavements previously laid have been remedied. Under the influence of the summer heat and travel the blocks have softened and cemented together, so as to form a pavement difficult to detect from one of sheet asphalt.

These pavements turned out so well that a large amount will be laid during the year 1888-'89.

APPROPRIATIONS FOR 1888-'89.

The amount appropriated for street improvements in the city for the year 1888-'89 is \$615,000, divided as follows:

General schedule	\$140,600	Southwest	\$52,800
Georgetown	38,600	Southeast	54,400
Northwest	191,400	Northeast	129,700

In making these appropriations Congress named in each section more streets than could be improved with the money appropriated, and the expenditure was left to the discretion of the Commissioners, within the limits of streets named in the bill.

The task of cutting down the list of streets named in the bill to correspond with the amount appropriated was completed by the adoption of the following schedule of streets to be improved during the year 1888-'89:

GENERAL SCHEDULE.

Seventh street, from Q to Boundary, pave.
 Eleventh street southeast, from Pennsylvania avenue to Anacostia bridge, pave.
 Four-and-a-half street, from H to Arsenal, pave.
 Brightwood avenue, from Grant avenue to Princeton street, pave.
 Streets south and west of the Treasury Department, pave.

The work of improvement on the following street was not contracted for, it being deemed wise to postpone the work on it until further along towards the close of the year, in order to provide against any financial contingency that might arise.

C street southeast and southwest, from First to New Jersey avenue (partially), pave.

GEORGETOWN SCHEDULE.

Thirtieth, from P to Q streets, pave.
 Q street, from Twenty-eighth to Thirtieth, pave.
 O street, from Thirty-fifth to College Gate, pave.
 Thirty-third, from P street northward, grade and regulate.
 Thirty-fourth, from M to N, grade and regulate.
 Prospect avenue, from Thirty-third to Thirty-sixth, grade and regulate.

NORTHWEST.

New York avenue, from Seventh to New Jersey avenue, pave.
 Twelfth street, from R to S, pave.
 R street, from Seventh to Ninth, pave.
 S street, from Seventh to Eleventh, pave.
 Rhode Island avenue, from Fifth to New Jersey avenue, pave.
 O street, from Twenty-first to Twenty-second, pave.
 Twenty-second, from O to P streets, pave.
 Boundary, from Seventh to New Jersey avenue, pave.
 Q, from Fifth to New Jersey avenue, pave.
 Q, from Seventeenth to Nineteenth streets, pave.
 Q, from Rhode Island avenue to Vermont avenue, pave.
 Eighth, from S to Boundary, pave.
 Seventeenth, from Q to R streets, pave.
 New Hampshire avenue, from Q to R streets, pave.
 Corcoran, Fifteenth to New Hampshire avenue, pave.
 F street, from Twenty-third to Twenty-fifth, grade and regulate.
 N street, from Third to North Capitol, grade and regulate.

The work of improvement on the following streets was not contracted for, it being deemed wise to postpone the work on them until further along toward the close of the year, in order to provide against any financial contingency that might arise:

Fifth, from O to Q, pave.
 Fifteenth street (west side) from Pennsylvania avenue to New York avenue, pave.
 Thirteenth street, intersection to B street, pave.

SOUTHWEST.

G, from Third to Four-and-a-half, pave.
 C, from Twelfth to Fourteenth, pave.
 I, from First to Water, grade and regulate.
 G, from Third to South Capitol, grade and regulate.
 Canal, from B to First, graded and regulated and improved with gravel roadway.

The work of improvement on the following streets was not contracted for, it being deemed wise to postpone the work on them until further along towards the close of the fiscal year, in order to provide against any financial contingency that might arise:

Thirteenth street, from Maryland avenue to Water street, pave.
 L, from First to Four-and-a-half, grade and regulate.

SOUTHEAST.

Seventh, from D to Virginia avenue, pave.
 South Carolina avenue, from Seventh to Ninth, pave.
 Sixth, from E to Virginia avenue, pave.
 Pennsylvania avenue, from Eighth to Eleventh, pave.
 H, from First to Second streets, grade and regulate.

The work of improvement on the following street was not contracted for, it being deemed wise to postpone the work on it until further along towards the close of the year, in order to provide against any financial contingency that might arise:

C street, from Seventh to Eleventh, grade and regulate.

NORTHEAST.

C street, from Sixth to Eighth, pave.
 Seventh street, from B to D, pave.
 Massachusetts avenue, from Sixth to Eighth, pave.

Maryland avenue, from Sixth to Eleventh, pave.
 Maryland avenue, intersection Fifteenth street, Bladensburg road, etc., pave.
 Eighth, from East Capitol to Massachusetts avenue, pave.
 Eleventh, from North Carolina avenue to Massachusetts avenue, pave.
 F street, from North Capitol street to Third, pave.
 C street, from Eighth to Eleventh streets, grade and regulate.
 G street, from Second to Sixth streets, grade and regulate.
 B street, from Eleventh to Fourteenth, grade and regulate.
 Third street, from E to H streets, grade and regulate.

REPLACEMENT OF WOOD.

D street southeast (south side), from Seventh to Ninth streets, pave.

The District appropriation bill contained the following clause :

That under appropriations contained in this act no contract shall be made for making or repairing concrete or asphalt pavement at a higher price than \$2 per square yard for a quality equal to the best laid in the District prior to July 1, 1886, and with same depth of base.

It was decided to pave the following streets with granite blocks on account of the large amount of traffic on them now or which might be expected in the future:

Seventh street, from Q to Boundary.
 Eleventh street southeast, from Pennsylvania avenue to Anacostia Bridge.
 Four-and-a-half, from H to Arsenal.
 Brightwood avenue, from Grant avenue to Princeton street.
 Thirteenth street, from Maryland avenue to Water street.
 Maryland avenue, intersection Fifteenth street, Bladensburg Road, etc.
 Nichols avenue, from Harrison street southward.

For the other streets proposals were invited for four different kinds of sheet pavements, and for asphalt blocks.

The specifications for sheet pavements are given in another part of this report. They are summarized as follows :

(1) The regular old standard asphalt pavement, consisting of a 6-inch base of hydraulic concrete and a wearing surface of asphalt $2\frac{1}{2}$ inches thick. No bids were received for furnishing this pavement at the limit fixed by law, \$2, the lowest price being \$2.25 per square yard.

(2) The coal-tar distillate pavement, consisting of a 4-inch bituminous base, $1\frac{1}{2}$ inches binder course, and $1\frac{1}{2}$ inches distillate wearing-surface, similar to the pavement laid the previous year. Bids were received from the Barber Asphalt Paving Company and from H. L. Cranford for laying this pavement, at \$2 per square yard, and some of it was contracted for from each of these firms.

(3) A modification of the last-named pavement, consisting of the same base and binder, but with a wearing-surface of $1\frac{1}{2}$ inches of asphalt instead of $1\frac{1}{2}$ inches of coal-tar distillate composition.

Both the Barber Asphalt Paving Company and H. L. Cranford proposed to lay this pavement at the same price as the regular distillate pavement, and contracts have been made with them to lay a large proportion of the streets to receive sheet pavements during the present year. It is my opinion that this is the most suitable and satisfactory sheet pavement yet devised for our ordinary residence streets of light traffic.

(4) A modification of the last-named pavement which consists of substituting a base of hydraulic concrete 4 inches in thickness for the bituminous base 4 inches thick, the binder course and asphalt surface remaining the same.

The Barber Asphalt Company and H. L. Cranford proposed each to lay a small amount of this pavement as an experiment at the limit of price fixed by law, and contracts to this end were awarded them. These

pavements are to be laid on Fourteenth street extended, by the Barber Asphalt Company, and on Corcoran street by H. L. Cranford.

As previously stated, a large amount of asphalt block pavement will be laid this year in the southeast, southwest, and northeast sections of the city. The contract price of this pavement is \$2 per square yard. The contractor excepted the northwest section in his proposition on account of length of haul of materials.

Appended to this report are the current specifications for the different kinds of sheet pavements before mentioned, for asphalt block pavements, and for granite block pavements.

At the request of Captain Griffin, I desire to correct a statement which appeared in his report of last year. On page 62 of the report of the engineer department appears this statement:

Of the Evans pavements 157,324 square yards were resurfaced by Scharf within two years after laying, and virtually became Scharf pavements.

These pavements were then considered Scharf pavements, and the cost of their maintenance charged to Scharf pavements in computing the average cost of maintenance.

This statement was an error, as the pavements laid by Evans were not resurfaced by Scharf, but by Cranford & Hoffman and J. Taylor.

Moreover an injustice is done to the pavements laid by Scharf by showing that they have cost for maintenance much more than in fact they really did.

I take pleasure in making the correction as requested, and trust that this will correct any false impression that may have arisen in consequence of the statement quoted.

SCHEDULE FOR 1888-'89.

It does not seem possible to fix upon any basis of estimates for the allotment of improvements to the various sections of the city which shall be satisfactory in every particular.

There are certain streets which it seems hardly fair to charge to any one section for the reason that they have a general importance; such are the great avenue thoroughfares, streets about the railroad depots, streets partly in one section and partly in another, streets the improvement of which is rendered necessary by the construction of other public works, etc.

These streets properly form a general schedule for improvement.

BASIS OF ESTIMATES.

The following table gives the basis of estimates proposed last year by Captain Griffin, computed from the latest data:

Sections.	Taxable valuations.		Area.		Population.		Streets to be improved.		Mean average.	Appropriation 1888-'89.
	Amount.	P. ct.	Acres.	P. ct.	No.	P. ct.	Sq. yds.	P. ct.	P. ct.	P. ct.
Georgetown :	\$4, 707, 573	4.5	590.95	9.2	17, 233	7.8	128, 960	4.9	6.6	6.4
Northwest...	81, 086, 287	77.7	2, 720.79	41.5	112, 360	51.5	762, 497	28.8	49.9	36.2
Southwest...	6, 607, 756	6.3	957.42	14.6	26, 263	12.0	357, 496	13.6	11.6	15.6
Southeast....	6, 556, 495	6.2	1, 247.40	19.0	32, 347	14.9	697, 496	26.3	16.6	20.4
Northeast...	5, 399, 408	5.3	1, 033.56	15.7	29, 954	13.8	699, 430	26.4	15.3	21.4
	104, 357, 519	100.00	6, 550.12	100.00	218, 157	100.00	2, 645, 879	100.00	100.00	100.00

NOTE.—The percentage of the appropriation for the general schedule is distributed to the sections in which the streets of that schedule are located.

This proposed basis leaves out of consideration one very important element, that is, the rate of progress. If one section is increasing in population much more rapidly than another, it is plain that its needs of public improvements are to some extent commensurate with this rate of increase.

The following table shows the relative importance of the various sections in respect to population in 1887 and 1888:

Section.	Relative population 1887.	Relative population 1888.	Relative increase + Relative decrease -
	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>
Georgetown	7.6	7.8	+ .2
Northwest	57.0	51.5	-5.5
Southwest	14.4	12.0	-2.4
Southeast	11.4	14.9	+3.5
Northeast	9.6	13.8	+4.2

This table indicates that in Georgetown the relative population has slightly increased; that in the northwest it has very materially decreased; that in the southwest it has decreased considerably; while in the northeast and southeast it has very largely increased.

If now we algebraically combine this relative increase and decrease in population with the mean average per cent. given above, depending on (1) taxable valuation, (2) area, (3) population, and (4) streets to be improved, we shall have a basis of estimate as fair and equitable as I can devise.

Section.	Mean average of 1, 2, 3, 4.	Relative increase + Relative decrease -	Proposed relative basis of estimate.	Appropriation for 1888-1889.
	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>
Georgetown	6.6	+ .2	6.8	6.4
Northwest	49.9	-5.5	44.4	36.2
Southwest	11.6	-2.4	9.2	15.6
Southeast	16.6	+3.5	20.1	20.4
Northeast	15.3	+4.2	19.5	21.4

It may be observed that there is a reasonable agreement between the proposed basis and the appropriations made in the last appropriation bill.

There are a large number of streets and avenues in the city needing improvement, and it is hoped that for the work a sum of not less than \$1,000,000 may be appropriated. With this as a sum total I would recommend that \$250,000 be allotted to the general schedule, and the remaining \$750,000 be allotted as nearly as practicable according to the above-mentioned basis.

This would give the following sums:

Section.	Per cent.	Allotment.
Georgetown		
Northwest	6.8	\$51,000
Southwest	44.4	333,000
Southeast	9.2	69,000
Northeast	20.1	151,000
	19.5	146,000
Total		750,000

NALLYTOWN

ROAD

KLINGLE

WOODLEY

FORD

NOURSE

ds.
281
439
544

ds.
313
762

s "

s.
00
40

v

The schedule of streets for which appropriations are asked by the Commissioners in the estimates for 1889-'90 is given at the end of this report.

SIDEWALKS.

Under the regular appropriation for street improvements the only sidewalks laid were of brick.

	Sq. yards.
Of new brick sidewalks laid there were	56,080.00
Of old brick sidewalks relaid there were	3,333.40

Other walks were laid out of the appropriation for "current repairs" as follows:

	Sq. yards.
Brick	10,813
Asphalt block and tile	3,762

Out of the appropriation for "permit work" as follows:

	Sq. yards.
Brick	9,281
Asphalt block	439
Asphalt tile	8,044

From the appropriation for "current repairs to county roads" as follows:

	Sq. yards.
Brick (new)	500
Brick (old)	575

The following table shows the current prices for sidewalks:

Material.	Cost.	Cost of labor.	Total cost per square yard.
Granolithic	\$1.80	\$1.35	\$3.15
Artificial stone			*1.85
Asphalt block	2.04	.40	2.44
Asphalt tile (square)	1.35	.40	1.75
Asphalt tile (hexagonal)	1.53	.40	1.93
Brick	.46	.25	.71

* Contract price.

The roadway pavements of Washington are beyond question unsurpassed in any city of the world; but the same can not be said of the sidewalks.

Bricks properly laid on a bed of porous sand and gravel form a fairly good sidewalk. This, costing, as it does, less than half of any other equally satisfactory sidewalk yet devised, is suitable for newly-improved streets, and I see no present necessity or probability of changing it for any other. But brick sidewalks are not suitable for streets in the heart of the city which are thoroughfares or thickly or handsomely built up. For these streets some other sidewalk or sidewalks should be devised and adopted, and whenever the existing brick sidewalks shall become worn out or need replacing from any cause it should be obligatory to replace with one better and more satisfactory. It will be well if a thoroughly satisfactory foot-pavement can be obtained at reasonable cost to gradually remove all the old brick pavements in the thickly and finely built up portions of the city and substitute new ones.

There is no pavement yet laid here which for general adoption fulfills all the requisite properties, including that of reasonable cost.

As our roadways are ordinarily covered with sheet pavements it is desirable that the foot-walks should not be so covered, as it is essential that some part of the street should be accessible for sewer, water, gas, and gas pipes and their connections, and for electric wires of all kinds. These are ordinarily laid under the sidewalks, and the sidewalks should be of such a nature that they can be partly taken up and replaced without injury or disfigurement. This precludes the use of sheet foot-walks and demands some form of block pavement. The asphalt block and tile sidewalks which have been laid in the city are a great improvement over brick, but are not entirely satisfactory, as the blocks and tiles are too small. Good flagging of medium size, well laid, would be satisfactory, but is too expensive in this vicinity. It is deemed possible that artificial stone flagging can be made which will fulfill all requirements, and to this end experiments have been inaugurated by this office to determine the cost and best mode of manufacture. The artificial stone flagging can be produced of any thickness any size, and nearly any color, and of varying strength, according to the qualities and quantities of the materials used. It can be laid with varying beds, according to the locality and the probable strains on it. If the cost is found to be reasonable, as seems probable, it may furnish the solution of the sidewalk question. I have strong hopes that it will.

There are many cases throughout the city where the sidewalks are old and dilapidated, and uncomfortable and dangerous for passers. These should be replaced, and I would therefore recommend that the sum of not less than \$100,000 be appropriated for the replacement of existing brick sidewalks with these of an improved character wherever the Commissioners may deem it proper to do so for the public health, safety, or comfort.

CURB.

The kinds of curb laid in the city streets last year were the ordinary 5 by 20 inch blue-stone curb, of which 28,829 feet were purchased and set; the ordinary 6 by 20 inch granite curb, of which 8,399 feet were purchased and set; a special granite curb 8 by 8 inches, of which 3,180 feet were purchased and set, and a combination curb, gutter, and electrical conduit of artificial stone, of which 7,078.3 feet were set.

The first two named are the standard varieties which have been laid throughout the city. The blue-stone curb is objectionable, on account of its color and the ugly and unsightly discolorations with which it is affected when exposed to the weather. I believe that the use of this curb should be reduced to the least amount possible. Its only advantage is its cheapness, being cheaper by about 20 cents per foot laid than the varieties of granite curb. This in a square 400 feet long would amount to \$160, which is a small price to pay for the much handsomer appearance and better qualities of the granite curb.

The 6 by 20 inch granite curb, as well as the 5 by 20 inch blue-stone curb, are laid on a narrow base, in violation of the most ordinary scientific principles, and in consequence they settle unequally.

The 8 by 8 inch special granite curb was procured and laid as an experiment. It was laid on a base of hydraulic concrete, 18 inches wide and 9 inches in depth. The success of the experiment has been undoubted. The curb has kept its alignment perfectly, and is very handsome in ap-

pearance. During the present year a large part of the curb to be used will be of this character, and it is intended that hereafter it shall, as far as possible, supersede all other kinds.

The combination curb, gutter, and electrical conduit of artificial stone has stood well, is in perfect alignment, and presents a very handsome appearance. It has been laid on C street southwest, between First and Third; on Massachusetts avenue northwest, between North Capitol and New Jersey avenue; on Dumbarton street, between Twenty-ninth and Thirtieth; on Twelfth street, between Rhode Island avenue and Vermont avenue; and on Seventeenth and Eighteenth streets, between P and Q. The use of artificial stone for a curb is such a decided departure from ordinary practice that I have not felt prepared to recommend it until a longer time has passed over that already laid. No use has been made of the electrical conduits, as there have been no wires to place therein. It is probable that a small additional amount of this curb will be laid this year to continue the experiment.

CURRENT REPAIRS TO STREETS, AVENUES, AND ALLEYS.

Appropriation, 1887-'88.....	\$30,000.00
Expenditures	30,000.00

The following is a statement of the work done:

Cobble and rubble pavement laid	square yards..	23,192
Granite-block pavement laid.....	do.....	5,453
Macadam pavement laid and resurfaced	do.....	4,286
Brick pavement laid.....	do.....	10,813
Asphalt-block and tile pavement laid.....	do.....	3,762
Gravel roadway repaired.....	do.....	30,218
Curbstone set or reset	linear feet..	8,378
Flagging laid or relaid.....	do.....	22,325
Sewer-pipe laid or relaid.....	do.....	85
Gutter bridges built.....		3
Flumes repaired.....		3
Gutters, roadways, and sidewalks cleaned.....	linear feet..	224,558
Grading	cubic yards..	6,031
Miscellaneous minor repairs, dangerous holes, etc.....		695

Appropriation for 1888-'89, \$35,000.

This is the only appropriation generally available for work on city streets other than those concreted. With the money available, it is only possible to do a small portion of the work actually needed.

This appropriation should be largely increased. Not less than \$50,000 should be given, which is the sum recommended by me.

REPAIRS TO CONCRETE PAVEMENTS.

Appropriation for 1887-'88.....	\$80,000.00
Expended to August 31, 1888.....	79,999.49

The following table gives a statement of the expenditure of this appropriation :

Resurfacing.

Locality.	Square yards.	Cost.	Total.
Scott Circle	9,001.00	\$1.05	\$10,455.89
Thirteenth street, from F to H.....	3,318.00	1.05	3,820.58
L street, from Connecticut avenue, 199.38 feet east.....	708.91	1.05	945.13
Pennsylvania avenue, from Twenty-sixth street to Rock Creek	2,459.52	1.05	2,690.38
New York avenue, from Eleventh street to Twelfth.....	1,724.80	1.05	2,046.27
K street, south side, from Seventh street to Ninth	1,100.00	1.05	1,481.97
G street, from Seventeenth to Nineteenth, and Twenty-first to Twenty-second	6,737.77	1.05	7,865.44
Q street, from Twentieth street to Connecticut avenue.....	651.29	1.05	929.74
H street, from Vermont avenue to Connecticut avenue	2,603.56	1.05	2,736.14
E street, from Thirteenth street to Pennsylvania avenue	955.55	1.50	1,452.21
Total	29,260.40	.....	34,423.75
Various minor repairs	*2,212.71	.....	42,795.62
Inspection .....		.....	2,939.50
Miscellaneous expenses.....		.....	11.75
Total .....		.....	80,170.62
Deduct value of 4,190 paving block.....		.....	171.13
Difference.....		.....	79,999.49
Balance on hand .....		.....	.51
Grand total .....		.....	80,000.00

* Cubic yards.

Appropriation for 1888-'89, \$95,000.

The concrete pavements of Washington, increasing rapidly from year to year, demand a constantly increasing amount to keep them in repair, and it is urgently requested that a sum of not less than \$100,000 be appropriated for the work for the year 1889-'90.

PENNSYLVANIA AVENUE.

I desire to invite earnest attention to the necessity for making special provision for Pennsylvania avenue, from the Capitol to the new War, State, and Navy Department Building.

This is the principle avenue of the city, and its pavement is in a wretched condition, and is in most places so worn as to be beyond repair by the method of patching. The only way by which this avenue can be put into a proper and presentable condition is by removing the present surface coat and replacing it with another constructed more in accordance with the dictates of experience, a combination wearing surface coat laid on the existing hydraulic concrete base which will be free from the disagreeable wavy surfaces now common on the avenue.

It is estimated that the work will cost \$130,000, and it is requested that this sum be appropriated for the purpose.

PERMIT WORK.

Appropriation	\$90,000.00
Expended	93,982.08
Repayments to appropriation from compulsory permit system to August 31, 1888.....	5,442.66

According to law repayments were available for other work. In the street department the total amount of material furnished and labor performed under the compulsory permit system was \$32,507.77, and under the ordinary permit system \$39,858.49, or a total of \$72,366.26.

The work done is summarized as follows:

Compulsory permit work.

Curb-stone set	lineal feet..	931
Flagging laid	do	968
Brick pavement laid	square yards..	1,051
Cobble pavement laid	do	827
Asphalt block pavement laid	do	12,356
Asphalt tile pavement laid	do	251
Grading	cubic yards..	3,560

Permit work.

Brick pavement laid	square yards..	8,230
Granite block pavement laid	do	164
Asphalt block pavement laid	do	5,101
Asphalt tile pavement laid	do	7,793
Cobble and rubble pavement laid	do	1,691
Curb-stone set	lineal feet..	10,414
Flagging laid	do	3,874
Grading	cubic yards..	4,895

The accompanying statements show, in detail, the location, kind, and cost of each piece of work done, for whom done, and the overseer, also the amount returnable to each depositor.

A.—Annual report of permit work, 1887 and 1888.

Number.	Locality.	Grading (cubic yards).	Curb set (linear feet).	Brick sidewalk (square yards).	Cobble and rubble (square yards).	Granite block (square yards).	Asphalt block roadway (square yards).	Asphalt block sidewalk (square yards).	Flagging (linear feet).	Asphalt tile sidewalk (square yards).	Estimated cost of labor.
1	Eleventh street between P and Rhode Island avenue, N. W.	4	13	2	7		14		13		\$31.70
2	Euclid avenue, N. W.		160		35				160	110	90.15
3	11 First street, N. E.									31	12.60
4	Alley, square 100	75	80				142				91.30
5	610 F street, S. W.		219							219	99.70
6	F street bet. Sixth and Seventh, S. W.		250							288	129.60
7	900 Ninth street, N. W.									32	12.80
8	1416 New York avenue, N. W.									33	13.20
9	First street bet. Indiana avenue and B						1,404				*568.05
10	1115 and 1117 Fifth street, N. W.									38	15.00
11	17 and 17½ H street, N. E.			6						39	16.10
12	Corner Thirteenth and F streets, N. E.	112	162	164	54				162		135.00
13	B street between Thirteenth and Thirteenth and a half, N. W.	6	16				20				49.73
14	Porter Place, N. W.	522	775	568			1,025				630.51
15	Alley, square 773			15			173				125.12
16	912 to 914 Seventh street, S. W.	7		54							13.25
17	Boundary street bet. V and W, N. W.			259							62.75
18	Lots 2 and 3, square 952, Georgia ave.	54	66	80	22				66		38.72
19	672 and 654 Pennsylvania avenue, S. E.	18								85	34.00
20	Pleasant street, Anacostia	429	416	412	182						221.35
21	1513 and 1517 K street, N. W.		78								35.50
22	O street between Twenty-first and Twenty-second, N. W.	365	607	486							256.58
23	Alley near 1323 Thirteenth street, N. W.						24				8.80
24	R street between Twenty-first and Twenty-second, N. W.		117	155	38				117		66.50
25	1324 Fourteenth street, N. W.	6		8						45	18.00
26	Fenton Place, N. W.		100	110	33				100		50.82
27	Marion street between Q and R, N. W.	100	464		161				484	464	305.70
28	Maple avenue, Anacostia	78	50	40	17				50		91.02
29	1212, 1214, 1216, and 1218 U street, N. W.		84	100	82				84		40.75
30	Twenty-third street, front of St. Mary's Chapel.		153		6				21	153	59.60
31	Alley, square 275	275					266				106.72
32	617 and 619 Seventh street, N. W.									45	17.60
33	Corner Nineteenth and T streets, N. W.		8				11				33.01
34	Scott street, Georgetown			50							12.50
35	Corner Fifth and K streets, N. W.	38		6		137	11				368.03
36	Nichols avenue, Anacostia		661								93.75
37	O street between Twenty-seventh and Twenty-eighth, N. W.		60	107							(†)
38	1730 K street, N. W.		79							35	13.80
39	East at intersection of Canal ave., S. W.		65	58		8					31.52
40	Fifth street between D and E, N. E.		123						123		†103.39
41	8 H street, N. E.	2								34	14.80
42	213 Twelfth street, N. W.			20							6.00
43	West side of Twenty-third st., square 55		10				14				31.39
44	207 and 209 Third street, S. E.									40	18.90
45	Corner Third and C streets, S. E.									178	111.35
46	2003, 2005, and 2007 Ninth street N. W.			54							21.22
47	Second street between M and N, S. E.		100	124	31				100		63.75
48	1148 Seventh street, N. W.									37	14.60
49	618 Twelfth street, N. W.									53	20.80
50	1763 P street, N. W.										8.00
51	901 Fourth street, N. E.										27.72
52	Q street between Twenty-eighth and Twenty-ninth, N. W.		118	131	39		11		118		77.37
53	F street between Thirteenth and Fourteenth, N. W.					14					12.22
54	F street, S. W., west of Sixth, S. W.		208							181	106.41
55	Alley, square 225										50.00
56	Twenty-ninth street between Gay and Dumbarton.			48	83		139				11.10
57	442 and 444 Ninth street, N. W.										22.00
58	621 B street, N. W.									50	26.10
59	626 E street, N. W.									50	22.50
60	911 to 935 Rhode Island avenue, N. W.										124.30
61	323, 325, and 327 Four-and-a-half st. S. W.		10						314		57.60

* Labor paid from current repairs.

† Work done by C. B. Crusor.

‡ School fund.

A.—Annual report of permit work, 1887 and 1888.

Cost of labor.	Materials.			Total cost.	Cost under estimate.	For whom done.	Overseer.	Number.
	Permit fund, 1888.	Property owner.	On hand.					
\$8.51		\$23.14		\$31.65	\$0.05	V. B. Johnson	Dillon	1
79.51	\$151.58		\$155.82	386.91	10.64	Hon. R. D. Harlan	Morrison	2
12.12	42.51			54.63	.48	N. J. Ordway	Walters	3
90.12	284.63			374.75	1.18	J. M. Johnson	Calhoun	4
93.66	315.67			409.33	6.04	Dr. Hammond	do	5
122.71	333.95			456.66	6.89	S. S. Baker	do	6
10.85	140.02			150.87	1.95	C. L. Alexander	do	7
10.22	52.50			62.72	2.98	A. E. Reeve	Morrison	8
568.05	2,593.75			3,161.80		T. L. Rosser	Calhoun	9
12.99	45.31			58.30	2.01	R. Berberich	do	10
12.92	47.04			59.96	2.18	J. A. Keppel	Cooksey	11
101.13	177.39			278.52	33.72	C. Gessford	McM	12
9.60		39.88		49.48	.25	J. F. Barbour	Cooksey	13
610.87	2,588.00			3,198.87	19.64	J. V. N. Huyck	Dillon	14
82.82	357.78	33.12		473.72	9.18	William M. Galt	Calhoun	15
12.86	24.46			37.32	.39	S. Sugenheimer	Dillon	16
53.53	116.15			169.68	9.22	D. J. McCarty	Morrison	17
36.84	54.71		56.97	148.52	1.88	William B. Lord	Cooksey	18
27.71	137.92			165.63	6.29	T. J. Mayer	do	19
205.04	387.21		14.76	607.01	16.21	J. E. Arnold	do	20
35.07	74.10			109.17	.43	B. H. Warder	Dillon	21
221.96	568.46		118.22	908.64	34.62	Swormsted & Bradley	do	22
8.45	47.12			55.57	.35	W. P. Tisdell	do	23
63.11	74.56		109.40	247.07	3.39	T. M. Woodruff	McM	24
17.92	63.22			81.14	.08	A. F. Gutekunst	Cooksey	25
50.59	74.23		63.36	188.18	.23	James Burdens	McM	26
295.78	886.15		455.54	1,437.47	9.92	J. F. Barbour	McMurray	27
33.19		57.83		91.02		H. A. Griswald	Cooksey	28
39.39	67.29			106.68	1.36	L. A. Barr	McMurray	29
43.43	199.05			242.48	16.17	P. V. Hagner	Walters	30
106.49	585.29			691.78	.23	Grenville Lewis	do	31
15.65	58.50			74.15	1.95	J. C. Parker	Calhoun	32
5.55		21.56		27.11	5.90	J. H. Thornton	do	33
8.33	24.29			32.62	4.17	W. R. Deeble	do	34
80.52		274.96		355.48	12.55	John McDermott	Dillon	35
93.75	363.45			457.20		H. A. Griswald	Cooksey	36
			29.53	29.53		C. B. Crusor	C. B. Crusor	37
13.80	54.84			68.64		R. I. Flemming	Morrison	38
28.14		3.38		31.52		Architect U. S. Capitol	Dillon	39
103.39	43.72		177.24	324.35		Inspector of buildings	McMurray	40
13.11	41.89			55.00	1.69	W. H. Murphy	Dillon	41
6.00	9.26			15.26		F. L. Harvey	Morrison	42
6.25	25.07			31.32	.07	D. P. Morgan	do	43
18.80	56.19			74.99	.10	A. N. Meeker	do	44
64.62	276.32	28.95		369.89	17.78	T. J. Mayer	do	45
12.62	21.97			34.59	8.60	A. Fitzmorris	McM	46
63.75	70.35		107.53	241.63		W. E. Burford	do	47
12.12	47.65			59.77	2.48	Bassford & Clotworthy	Calhoun	48
17.42	68.83			86.25	3.38	John Cook	do	49
7.07	26.85			33.92	.93	J. H. Marr	do	50
5.92		21.80		27.72		Mrs. Juneman	Morrison	51
61.78	96.24		93.81	251.83	15.59	D. Mackall	McMurray	52
7.07		5.15		12.22		C. C. Willard	Morrison	53
97.89	338.62			436.51	8.52	E. D. Donnelly	Calhoun	54
44.94	264.24			309.18	5.06	C. H. Craigan, jr	do	55
10.46	16.81			27.27	.64	J. H. McDaniel	McM	57
17.92	132.45			150.37	4.08	J. F. Johnson	Calhoun	57
19.94	77.25			97.19	6.16	N. White & Co	do	58
11.86	65.63			77.49	10.64	M. J. Markriter	do	59
96.25	542.11			638.36	28.05	A. S. Pratt & Son	do	60
54.79	296.49			351.28	2.81	Sam. Harman	do	61

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A.—Annual report of permit work, 1887 and 1888—Continued.

Number.	Locality.	Grading (cubic yards).	Curb set (linear feet).	Brick sidewalk (square yards).	Cobble and rubble (square yards).	Granite block (square yards).	Asphalt block roadway (square yards).	Asphalt block sidewalk (square yards).	Flagging (linear feet).	Asphalt tile sidewalk (square yards).	Estimated cost of labor.
62	I street between Fourteenth and Fifteenth, N. W.		25								\$17.00
63	Pennsylvania avenue between Second and Third streets, S. E.										18.50
64	1243, 1245, and 1245½ Thirty-third street			50							13.05
65	Alley, square 376	37					153				70.20
66	1710 and 1712 Thirty-second st. N. W.			48							8.25
67	Corner Seventh and B streets, S. W.										40.40
68	727 Fifth street, N. W.									79	20.00
69	1016 Fourteenth street N. W.									51	30.66
70	1720 and 1722 Thirty-second st., N. W.									37	12.12
71	Fourth street between A and B, N. E.									48	74.00
72	1759 P street, N. W.									185	7.00
73	Corner Four-and-a-half and D sts., N. W.		82							18	29.25
74	1827 Fourteenth street N. W.									66	49.00
75	Saint Teresa's Church, Anacostia.	57	113	103	48						34.65
76	1710 Connecticut avenue, N. W.									81	75.38
77	904 and 906 L street, N. W.									89	69.40
78	Corner Twelfth and S streets, N. W.	61	118	144	38				118		13.60
79	506 Ninth street, N. W.									31	7.26
80	O street, N. W., N. Capitol to First										60.00
81	1315 Rhode Island avenue, N. W.								121	121	18.44
82	207 and 209 Third street, S. E.									10	51.75
83	Park street, Mount Pleasant		100	62	30				100		31.15
84	Corner Caroline and Sixteenth streets		80	80	18				80		24.24
85	Corner Four-and-a-half street and Indiana avenue, N. W.				84				91		5.00
86	Prather's alley, Mount Pleasant.			25							39.71
87	50 H street, N. E.							16			17.00
88	Alley, square 73		60	33							79.88
89	916 and 918 Fifth street, N. W.									87	65.90
90	Corner Fourteenth and Chapin streets									225	20.40
91	604 and 606 Ninth street, N. W.									48	17.80
92	3063 and 3065 M street, N. W.									41	38.60
93	625 and 627 Seventh street, N. W.									97	40.50
94	Alley in reservation 10						90				602.03
95	James street, square 1004	1,237	900	820							334.35
96	Maple avenue, Anacostia.	428	602	500	202				602		20.40
97	229 and 231 Pennsylvania avenue	12								65	75.00
98	Alley, square 165	78					165				6.00
99	Alley, square 195	03			17						6.81
100	Louisiana avenue between Ninth and Tenth streets, N. W.			44							9.09
101	do			44							6.81
102	do			44							125.16
103	Corner Fifth and E streets, N. E.	60	142		48			142	189		35.00
104	1220 Pennsylvania avenue, N. W.								85		10.50
105	Georgia avenue, square 952	8						152			10.35
106	928 Louisiana avenue, N. W.			44							11.86
107	930 Louisiana avenue, N. W.			44							13.36
108	938, 940, and 942 Louisiana avenue			42							78.20
109	934 and 936 Louisiana avenue						170				32.80
110	434, 436, and 438 Seventh street, N. W.								124		17.80
111	414 Seventh street, N. W.								38		15.60
112	1218 Pennsylvania avenue, N. W.								40		21.20
113	1523 Rhode Island avenue, N. W.								54		32.77
114	Second street between M and N, S. E.		64	64	21			64			25.00
115	1418 M street, N. W.								45		15.40
116	3119 M street, N. W.								39		4.00
117	1918 Nine-and-a-half street, N. W.										
118	Corner Eighth and F streets, N. W.						5				
119	1607 Twenty-eighth street, N. W.	83									
120	Wyoming avenue, N. W.			65							
121	1400 New Hampshire avenue, N. W.	1,200	790								28.50
122	1408 New Hampshire avenue, N. W.									87	15.25
123	612 B street, S. W.									31	24.17
124	Patterson street									40	94.20
125	809 Seventh street, N. W.		120	120	40			120			14.26
126	Corner Tenth and U streets, N. W.								55		46.15
127	Thirtieth street, Georgetown	40	76	76	28			76			84.80
128	1602 Fourteenth street, N. W.		16						111		20.47
129	114 Pierce street, N. W.			10			14				

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 247

A.—Annual report of permit work, 1887 and 1888—Continued.

Cost of labor.	Materials.			Total cost.	Cost under estimate.	For whom done.	Overseer.	Number.
	Permit fund, 1888.	Property owner.	On hand.					
\$7.19	\$22.90			\$30.09		A. B. Mullett	Calhoun	62
18.50				18.50		T. J. Mayer	Morrison	63
10.96	20.57			31.53	\$2.09	J. J. Bogan	McMurray	64
62.29	313.68			375.97	7.91	A. Fisher	Calhoun	65
7.56	14.53			22.09	.69	D. Haggerty	McMurray	66
30.04	191.47			221.51	10.36	W. H. Baum	Calhoun	67
16.41	74.63			91.04	3.59	F. J. Tews	do	68
12.12	32.52	\$16.26		60.90	2.28	F. A. Gardner	do	69
11.35	59.04			70.39	.77	W. H. Harvey	McMurray	70
61.26	314.25			378.51	9.74	C. C. Mead	Morrison	71
6.56	22.62			29.18	.44	J. H. Marr	Calhoun	72
23.58	77.90			77.90		William M. Poindexter	W. M. Poindexter	73
41.67	95.40			118.98	5.67	George F. Kozel	Calhoun	74
31.05	139.19			180.86	7.33	T. B. Hughes	Cooksey	75
31.80	113.76			144.81	3.60	G. W. Brown	Calhoun	76
68.29	77.52	36.70		146.02	6.88	W. C. Johnson	do	77
10.35	46.67			114.96	1.11	E. A. Clifford	Walters	78
7.19	41.82			52.17	3.25	John H. Wilmott	Calhoun	79
41.02	190.17			7.19	.07	O. C. Black	Morrison	80
4.04		14.40		231.19	18.98	T. L. Holbrook	Calhoun	81
42.66	33.18			18.44		A. N. Meeker	Morrison	82
30.91	3.75			75.84	9.49	A. Baldwin	Walters	83
24.24				34.66	.24	C. H. Merriam	Calhoun	84
5.00	6.65			24.24		R. Fendall	Walters	85
7.19		32.52		11.65		P. A. Fealey	Calhoun	86
13.26		3.00	\$11.30	39.71		H. F. Pillsbury	do	87
28.90	65.40	46.08		27.56	3.64	R. N. Titon	do	88
59.46	192.20			140.38	4.90	William Muhelheisen	do	89
18.68	67.26			251.66	6.44	C. S. Carter	do	90
13.63	59.98			85.94	1.72	William M. Galt	do	91
27.27	123.87			73.61	4.17	R. Young	do	92
38.28	142.10			151.14	11.33	Schwing & Clark	do	93
602.03	1,185.24			180.38	2.22	Thomas Geary	do	94
334.35	770.69			1,787.27		W. E. Burford	McMurray	95
20.25	74.88			1,105.04		H. A. Griswald	Cooksey	96
75.00	323.18			95.13		Chr. Ruppert	Calhoun	97
6.00				398.18		R. I. Flaming	do	98
6.81	2.25			6.00		A. B. Graham	Morrison	99
9.09	2.25			9.06		R. A. Golden	McMurray	100
6.81	2.25			11.34		J. A. Baker	do	101
93.28	303.04		134.78	9.06		W. S. Hoge	do	102
28.28	110.59			531.10	31.88	Oliver Cox	Cooksey	103
10.35				138.87	6.72	J. H. DeAtley	Calhoun	104
10.35	2.25			10.35	.15	W. B. Lord	Morrison	105
11.86	2.25			12.60		William Poindexter	McMurray	106
13.36				14.11		Roth & Geoghehan	do	107
66.58	267.97			13.36		E. O'Hare	do	108
29.58	159.45			334.55	11.62	W. S. Cox	do	109
13.63	48.97			189.03	3.22	George Spransey	Calhoun	110
13.13	51.37			62.60	4.17	William Helmus	do	111
17.92	69.66			64.50	2.47	H. B. Fulton	do	112
22.22	51.23			87.58	3.28	J. H. McKenny	Calhoun	113
17.42	54.58	6.97		73.45	10.55	C. W. Howard	Dillon	114
14.29	50.77			78.97	.61	F. W. Hackett	Calhoun	115
4.00	6.53			65.06	1.11	W. W. Corcoran	do	116
	79.01			10.53		M. C. Meigs	do	117
	16.61			79.01		A. L. Barbour & Co	A. L. B. & Co	118
21.21	112.45		1,218.90	16.61		D. Rittenhouse	D. Rittenhouse	119
15.15	40.50			133.66	7.29	H. L. Cranford	H. L. Cranford	120
12.37	51.38	7.60		55.65	.10	C. S. Fairchild	Calhoun	121
71.32	88.96			71.35	4.20	S. S. Cox	do	122
11.62	66.00			160.28	22.88	H. P. T. Johnson	do	123
45.19	9.00	24.00		77.62	2.64	R. S. Hill	McMurray	124
60.96	279.63			78.19	.96	T. Vogt	Calhoun	125
18.68	81.20			340.59	23.84	J. S. Boss	McMurray	126
				99.88	1.79	Beckwith & Quackenbush	do	127
				2.76		J. W. Nairn	Calhoun	128
						J. Collins	J. Collins	129

A.—Annual report of permit work, 1887 and 1888—Continued.

Number.	Locality.	Grading (cubic yards).	Curb set (linear feet).	Brick sidewalk (square yards).	Cobble and rubble (square yards).	Granite block (square yards).	Asphalt block roadway (square yards).	Asphalt block sidewalk (square yards).	Flagging (linear feet).	Asphalt tile sidewalk (square yards).	Estimated cost of labor.
130	1224 Pennsylvania avenue, N. W.									42	\$16.20
131	706 E street, N. W.									62	25.20
132	California avenue, N. W.		150	135							
133	Corner Seventh street and Pennsylvania avenue, N. W.		25								
134	Corner Ninth and L streets, N. W.									113	30.40
135	Alley, square 367	10					92				36.80
136	427 Seventh street, S. W.		22							42	20.20
137	1828 Boundary street, N. W.									49	9.75
138	Delaware avenue and Canal street.		192								28.80
139	D street and Virginia avenues, S. W.	40					433				609.23
140	1701 Rhode Is and avenue, N. W.									64	20.32
141	Linthicum Institute									191	54.54
142	72 Twentieth street, N. W.									61	83.62
143	1420 and 1422 Thirty-second st., N. W.									27	10.60
144	Alley, square 181	120			133		133				73.20
145	Lot 7, square 973.	3	11	43	3						16.71
146	G street between North Capitol and First streets, N. W.									31	84.07
147	Fenton Place, N. E.		50	61	41				50		33.25
148	Alley, square 181						48				23.60
149	2120 and 2122 Seventh street, N. W.			67							16.29
150	Thirteen-and-a-half street between C and D, N. W.	3	14	42	2						9.71
151	808 and 810 L street, N. W.	74	25		8				125	43	51.61
152	1216 Pennsylvania avenue, N. W.									52	20.40
153	Corner Thirty-second and P sts., N. W.		10					13			30.84
154	2115 E street, N. W.		10					10			25.08
155	2907 and 2909 Q street, N. W.		55	40	12						25.63
156	600 to 608 H street, N. E.			145							48.82
157	Eighth street between I and K, N. E.	20		150	6				20		54.25
158	Eighth street between I and K, N. E.	40		180	6				20		97.28
159	Corner Seventh and O streets, N. W.									114	72.90
160	1117 Eighteenth street, N. W.			2				13			29.89
161	479 C street, S. W.			3				12			29.16
162	Alley, square 874	300									110.71
163	Twenty-first st. bet. R and S, N. W.	18	32		5				21	25	23.07
164	C street and Louisiana avenue, N. W.		23			5				68	38.00
165	Eighth street between I and K, N. E.			65							30.55
166	3140 M street, N. W.							42			16.27
167	2402 and 2404 Fourteenth street, N. W.									117	46.85
168	1449 and 1451 N street, N. W.									30	13.20
169	619 B street, N. W.		27	50							22.65
170	1334 R street, N. W.									35	24.75
171	1006 I street, N. W.									44	30.84
172	Corner Eleventh and V streets, N. W.			302	43				131		147.46
173	509 Rhode Island avenue, N. W.									9	14.85
174	C st. bet. Seventh and Eighth, S. W.		10	27							14.40
175	507 Fourth street, N. W.			22							17.80
176	1008 M street, N. W.			19							12.55
177	Corner Fourteenth and Corcoran sts., N. W.									75	126.90
178	Water street above High		10					13			30.86
179	3410 T street, N. W.			30							8.64
180	1840 Fourteenth street, N. W.										68.86
181	Corner Tenth and G streets, S. E.	60	153	200	51			70		16	95.92
182	Corner Madison and Seventeenth sts., N. W.			18					153		3.00
183	729 Eleventh street, S. E.										20.78
184	Corner Fifth and A streets, N. E.		16	30							29.45
185	403, 405, and 407 Seventh street, N. W.							12			36.40
186	1230 Thirtieth street, N. W.									94	9.62
187	607 E street, N. W.									26	12.25
188	1826 and 1828 Fourteenth street, N. W.									27	23.50
189	1314 Thirtieth street, N. W.									64	13.50
190	1312 Thirtieth street, N. W.									41	28.25
191	1316 Thirtieth street, N. W.									87	10.50
192	2112 and 2114 M street, N. W.									31	10.75
193	1916 Nine-and-a-half street, N. W.									44	4.00
194	Alley, square 464	50						4			29.94
195	Fifteenth street bet. O and P, N. W.	12		31			80				30.13
196	Corner Fourteenth and H streets, N. W.		121						226		178.13

A.—Annual report of permit work, 1887 and 1888—Continued.

Cost of labor.	Materials.			Total cost.	Cost under estimate.	For whom done.	Overseer.	Number.
	Permit fund, 1888.	Property owner.	On hand.					
\$13.88	\$53.55			\$67.43	\$2.32	W. E. Spalding & Co	Calhoun	130
15.40	80.02			95.42	9.80	E. F. Buckley	do	131
			\$152.75	152.75		O. F. Presbrey	O. F. Presbrey	132
			24.17	24.17		H. Browning	H. Browning	133
28.26	145.30			173.56	2.14	B. W. Gheen	Calhoun	134
30.92	185.36			216.28	5.88	B. F. McCauley	do	135
15.40	55.92		12.56	83.88	4.80	G. Hartman	do	136
9.46	3.75			13.21	.29	J. Godfrey	do	137
26.79	150.72			177.51	2.01	E. Temple	Dillon	138
158.06	323.30	\$425.63		906.99	25.54	J. H. Grant	Calhoun	139
15.90	109.80			125.70	4.42	Perry Belmont	do	140
54.54	227.74			282.28		J. Dent	Walters	141
26.51	30.99	57.03		114.53	.08	P. L. Brook	Calhoun	142
9.83	35.20			45.03	.77	George Freeman	Walters	143
73.20	430.06			503.26		Stilson Hutchins	Calhoun	144
7.82		8.71		16.53	.18	Anick Palmer	Cooksey	145
19.69		64.23		83.92	.15	Architect U. S. Capitol	Calhoun	146
30.42	65.15			95.57	2.83	C. W. King	do	147
23.60	80.28			103.88		Colonel Rodgers	Walters	148
14.26	6.00			20.26	2.03	A. M. Donaldson	Morrison	149
6.18		1.50		7.68	2.03	Thomas Sommerville	Cooksey	150
37.29	58.24	14.32	3.75	113.60		Weller & Repetti	do	151
19.41	67.20			86.61	.99	J. T. Murray	Calhoun	152
7.00		23.84		30.84		A. G. Johnson	do	153
5.41		19.58		24.99	.09	William Muirhead	do	154
25.63	4.50		58.46	88.59		Darby & Collins	McMurray	155
33.82	48.05	12.25		94.12	2.75	S. C. Follansbee	Calhoun	156
45.82	44.06			89.88	8.43	O. Chappel	McMurray	157
88.88	108.10			196.98	8.40	C. E. Banes	do	158
46.14	190.20	26.71	6.60	296.65	.05	P. J. Fisher & Co.	Calhoun	159
5.17		24.13		29.30	.59	Pickering Dodge	do	160
5.55		23.28		28.83	.33	H. Ellbrook	do	161
110.70				110.70	.01	Swormstedt & Bradley	Cooksey	162
23.07	58.12		4.40	85.59		H. B. Glasscock	Calhoun	163
35.27	167.28		12.07	214.62	2.73	Roth & Geoghan	do	164
19.19			26.67	45.86	11.36	H. E. Davis	McMurray	165
16.16	60.63		4.78	81.57	.11	Craig & Jackson	Calhoun	166
19.92		26.85		46.77	.08	Anick Palmer	do	167
12.74	30.36		3.38	52.48	.46	P. E. Assesson	do	168
22.47	92.30			114.77	.18	J. B. Kendall	do	169
11.01	37.6	11.19	2.25	62.07	2.55	H. B. Munn	do	170
16.41	42.60	13.13	3.38	75.58	1.30	A. M. Proctor	do	171
84.33	39.87	53.45	11.25	188.90	9.68	W. P. Graham	McMurray	172
3.03		11.79		14.82	.03	T. W. Tisher	Calhoun	173
6.18		6.96		13.14	1.26	Henry Hass	Cooksey	174
7.07		10.73		17.80		Mrs. Crowe	Calhoun	175
4.79		7.76		12.55		S. A. Dalton	do	176
26.93		96.26		123.19	3.71	W. O. Roome	do	177
6.31		24.55		30.86		Weaver, Kengla & Co.	do	178
8.57	10.06			18.63	.07	M. A. Frizzle	do	179
30.55	82.88	32.86	6.00	152.29	5.45	Sells & Stone	do	180
95.81			16.87	112.68	.11	E. J. Hannan	do	181
3.00				3.00		McReynolds	do	182
10.10		10.38		20.48	.30	J. M. Mitchell	McMurray	183
6.18		23.27		29.45		V. B. Johnson	Calhoun	184
26.76	122.40			149.16	9.64	Chr. Ruppert	do	185
9.62	32.04		2.62	44.28		Kidwell & Jackson	do	186
12.25	32.58		2.62	47.45		J. L. Vogt	do	187
23.50	76.80		6.00	106.30		L. A. Barr	do	188
13.50	52.57			66.07		S. E. Wheatley	do	189
28.25	104.52			132.77		T. H. Looker	do	190
10.50	37.16			47.66		A. L. Brace	do	191
16.75	52.92		4.12	73.79		John Savory	do	192
4.00	6.95		.37	11.32		M. C. Meigs	do	193
29.21	47.71			76.92		Robert Partner	do	194
16.16		13.97		30.13		W. H. Shock	do	195
86.35	270.60	75.63	28.12	460.70		John F. Cook	do	196

A.—Annual report of permit work, 1887 and 1888—Continued.

Number.	Locality.	Grading (cubic yards).	Curb set (linear feet).	Brick sidewalk (square yards).	Cobble and rubble (square yards).	Granite block (square yards).	Asphalt block roadway (square yards).	Asphalt block sidewalk (square yards).	Flagging (linear feet).	Asphalt tile sidewalk (square yards).	Estimated cost of labor.
197	2124 Fourteenth street, N. W.									43	\$16.60
198	N. Capitol street, bet. B and C, N. W.	5	55				149				48.87
199	1214 and 1216 L street, N. W.		43							43	20.80
200	1225, 1227, 1229, and 1231 E street, N. W.		50							136	57.10
201	1708 Nineteenth street, N. W.									26	12.13
202	1513 Kingman Place									29	16.40
203	No. 4 Engine House	6		30			67			45	38.37
204	1019 Seventh street, N. W.									27	17.73
205	O street west of Twenty-first, N. W.		90	100					90		73.20
206	1404 Fifteenth street, N. W.										9.34
207	Lot 3, block 12, Champlain avenue		10	8							8.88
208	Third street, S. W., north of H		10	27							9.25
209	3107 to 3115 Fifteenth street, N. W.									103	42.40
210	F street bet. Sixth and Seventh, N. W.			13							3.93
211	1341 Seventh street, N. W.									39	14.28
212	912 F street, N. W.									31	12.00
213	Corner Twelfth street and Pennsylvania avenue, N. W.							39			42.86
214	1106 to 1116 F street N. W.		80							143	65.32
215	1110 F street, N. W.		25							53	23.15
216	434 to 440 Ninth street, N. W.										42.00
217	1310 Q street, N. W.	3		4				106			12.40
218	Corner Thirty-third and T sts., N. W.	10	38	42	17					46	28.79
219	Corner Fourteenth and Corcoran streets, N. W.										82.74
Total		4,895	10,414	8,230	1,691	164	4,662	439	3,874	7,793	11,617 95

A.—Annual report of permit work, 1887 and 1888—Continued.

Cost of labor.	Materials.			Total cost.	Cost under estimate.	For whom done.	Overseer.	Number.
	Permit fund, 1888.	Property owner.	On hand.					
\$11.86	\$51.12		\$4.50	\$67.48		R. D. DeL. French.....	Calhoun	197
48.87	275.19		18.37	342.43		Chief engineer fire dept	do	198
18.55	51.66		4.50	74.71	\$2.25	C. M. Hendly	do	199
50.11	163.20		27.63	240.94	6.99	Conrad Becker	do	200
8.83	31.26		2.62	42.71	3.30	A. Shoemaker	do	201
12.37	34.32		3.75	50.44	4.03	A. Marean	do	202
38.37	124.32		6.00	168.69		Chief engineer fire dept	Cooksey	203
17.67	54.54		4.50	76.71	.06	J. J. Reppeti	Calhoun	204
63.63	130.24		38.25	232.12	9.57	C. E. Foster	Walters	205
9.34	32.28		2.25	43.87		W. H. Shock	Calhoun	206
3.28				3.28	5.60	David Cramner	do	207
4.41		\$4.72		9.13	.12	James Frawley	do	208
36.32	128.46		10.12	174.90	6.08	W. Nordlinger	do	209
1.31		2.62		3.93		A. C. Clark	do	210
10.72	46.98		3.38	61.08	3.56	William Willis	do	211
10.35	36.90		3.00	50.25	1.65	G. C. Bergling	do	212
14.89	35.50	27.26	4.50	82.15	.71	C. B. Church	Dillon	213
60.82	76.34		13.50	150.66	4.50	Dawson & Haislip	Calhoun	214
20.94	63.30		5.63	89.87	2.21	do	do	215
41.15	152.79		10.12	204.06	.85	J. B. Porter	Walters	216
12.31	41.02			53.33	.09	J. J. Chipman	Cooksey	217
28.14	54.35			82.49	.65	C. Thomas	do	218
17.05		59.22		76.27	6.47	W. O. Roome	Calhoun	219
8,874.12	25,767.53	1,887.11	3,329.73	39,858.49	803.12			

B.—Compulsory permit work, 1887 and 1888.

Number.	Locality.	Grading (cubic yards).	Curb set (linear feet).	Brick sidewalk (square yards).	Cobble (square yards).	Asphalt block roadway (square yards).	Asphalt tile sidewalk (square yards).	Flagging (linear feet).
1	Alley, square 126.					36		
2	Alley, square 242.	220				410		
3	Alley, square 193.	60				75		
4	W street between Fourteenth and Fifteenth, N. W.	115	500	465	166			500
5	L street between First and North Capitol, N. W.	132		17	54			122
6	Alley, square 620.	121				340		
7	Alley, square 422.				455	455		
8	Alley, square 115.	420				653		
9	Alley, square 859.					2,132		
10	Alley, square 925.	90				662		
11	Alley, square 740.							
12	Alley, square 583.	60				1,441		
13	Alley, square 181.	300				947		
14	Alley, square 206.	80				568		
15	Alley, square 162.	1,033				1,033		
16	900 to 904 Twenty-second street, N. W.			90				
18	Alley, square 160.	60	13			77		
19	1707 I street N. W.				56			36
20	Alley, square 586.	80				1,273		
21	322 and 324 C street, N. W.						54	
22	Alley, square 574.					300		
23	Alley, square 180.	288				347		
24	B street between Twelfth and Thirteenth, N. E.		310	330	60			310
27	Alley, square 759.	40				211		
28	947 to 951 O street, N. W.			29			111	
29	Alley, square 383.	250				400		
30	Alley, square 206.	108				454		
31	Alley, square 206.					32		
32	Alley, square 557.	85				350		
34	Alley, square 874.	108				160		
41	1332 R street, N. W.						33	
42	1004 I street, N. W.						35	
43	1912 Sunderland Place.						18	
44	Seventeenth street between T and U, N. W.		108	120	36			
	Total.	3,560	931	1,051	827	12,356	251	968

B.—Compulsory permit work, 1887 and 1888.

Estimated cost.	Cost of labor, assessed.	Cost material, 1888.	Cost material, old.	Total cost.	For whom done.	Overseer.	Number.
\$109.40	\$20.67	\$67.40	.....	\$88.07	M. Ashford	Calhoun	1
1,054.22	302.72	1,166.69	.....	1,469.41	S. Bacon	do	2
195.45	47.72	147.45	.....	195.17	F. H. Hackett.....	do	3
1,099.73	311.58	250.52	\$501.26	1,063.36	P. F. Larner	McMurray..	4
267.71	84.45	55.65	135.14	275.24	P. N. Dwyer	do	5
891.33	124.12	660.21	.....	784.33	E. Nash	Calhoun	6
1,023.05	215.17	823.05	.....	1,038.22	J. B. Williams	do	7
1,624.59	296.34	1,312.83	.....	1,609.17	Capt. R. Birnie.....	do	8
4,818.02	809.36	3,895.12	.....	4,704.48	R. W. Tyler.....	Dillon	9
1,975.53	339.33	961.05	101.25	1,401.63	W. B. Webb	do	10
933.18	29.00	.....	.....	29.00	A. Emerson*.....	Walters	11
3,431.49	459.40	2,381.00	.....	2,840.40	B. Leonard*.....	do	12
2,762.79	468.31	2,251.01	.....	2,719.32	S. Newcomb	Calhoun	13
1,370.61	224.64	1,102.53	.....	1,327.17	Mrs. Green	do	14
2,665.12	556.85	2,257.75	.....	2,814.60	Health officer.....	Cooksey	15
49.51	18.00	29.98	.....	47.98	.....	McMurray..	16
242.79	47.75	195.04	.....	242.79	J. M. Johnson	Calhoun	18
52.65	22.67	.....	5.40	28.07	J. H. Watmouth	do	19
3,354.52	392.60	2,825.32	.....	3,217.92	J. H. Merrill	Walters	20
92.00	20.00	64.80	.....	84.80	S. P. Barnes	Calhoun	21
764.19	70.18	595.89	.....	666.07	T. W. Smith	do	22
905.78	179.32	745.98	.....	925.30	H. Hurt	do	23
602.51	184.83	186.20	231.48	602.51	W. C. Dodge	Morrison ...	24
456.10	68.68	374.12	.....	442.80	G. M. Oyster	Calhoun ...	27
229.91	47.78	149.19	.....	196.97	.....	do	28
940.71	192.45	884.51	.....	1,076.96	Dr. J. F. Keenan	Dillon	29
1,055.42	143.77	876.66	.....	1,020.43	Mrs. Ellen Reed.....	McMurray..	30
75.64	13.88	60.00	.....	73.88	R. Ravenburg	Calhoun	31
849.70	184.67	688.85	.....	873.52	A. S. Caywood	do	32
362.36	93.77	295.36	15.00	404.13	Swornstedt & Bradley...	Cooksey	34
42.85	10.10	30.60	2.25	42.95	H. S. Hubble	Calhoun	41
59.90	13.38	42.66	3.38	59.42	J. C. Smith	do	42
32.13	8.08	21.60	2.25	31.93	S. Butterfield	do	43
113.52	72.48	13.66	23.63	109.77	J. R. Rodgers	Walters	44
34,504.41	6,074.05	25,412.68	1,021.04	32,507.77			

* Work not completed on account of obstructions in the alley.

The amount of appropriation for 1888-'89 is \$90,000, and its expenditure is coupled with the condition that one-half of the cost of all work shall be charged to abutting property.

This provision is a wise one and works well in practice. It tends to keep down the wholesale requests for improvements by making applicants pay a much larger share of the expense than they did under the old system.

All the money appropriated will be expended and much more could be expended with great advantage to the city.

This is the only fund by which the improvements of alleys can be accomplished, and by it the Commissioners are enabled to produce excellent results from a sanitary point of view.

There is a large part of the population of Washington living in alleys, some of which are improved, but many are deficient in the improvements which tend to cleanliness and health. Many alleys are without sewerage or paving, and filthy slops are thrown out to soak into the ground and drain off as best they may. These festering nuisances are not visible to the public in driving about the city, but they are visible to the inspectors of this department and of the health department and are the constant subject of report and complaint.

The good health and good name of the city demands that the alleys should be kept in as good sanitary condition as the streets, and the only way to accomplish this is to provide these alleys with the necessary modern adjuncts to civilization—water supply, sewers, and pavements.

If ever a fatal epidemic strikes the city it will be fostered and multiplied in consequence of these hidden, loathsome alleys. To guard against anything of the kind I would respectfully and earnestly recommend that very liberal appropriations be made for their improvement. The sum of \$200,000 at least should be appropriated for permit work, the larger part of which would be used in improving alleys under the compulsory permit system.

I would also invite your attention to the desirability of securing additional legislation whereby a penalty can be imposed on delinquent assessments made under the provisions of this law. The same penalty that now is prescribed for delinquent general taxes should be imposed on these assessments when delinquent.

STREET AND ALLEY CLEANING.

On the 4th of February this work was transferred to the health department. Up to this time it had been under charge of the engineer department.

CONSTRUCTING COUNTY ROADS AND SUBURBAN STREETS.

Appropriation 1887-'88	\$50,000.00
Expended	49,999.38

The principal items of this expenditure were :

Nichols avenue, Anacostia	1,999.98
Benning's road	12,648.57
Bladensburg road	17,366.23
Canal road	2,330.69
Tennallytown road	6,340.29

From this appropriation there was also purchased a steam road-roller at a cost of \$4,000, a stone-crusher costing \$600, and an engine for same costing \$635.

The other items of expenditure are given in the extract from the report of the superintendent of roads, herewith.

The appropriation for constructing county roads 1888-'89 is \$88,980, and its application is particularly specified as follows:

Howard avenue (grade and regulate)	\$7,700
Jefferson, Jackson, and Washington streets (grade)	4,000
Harrison street and Good Hope road (grade and macadamize)	13,140
Nichols Avenue (pave)	13,140
Fourth street northeast extended, First street northwest extended, and Michigan avenue	15,000
Thirteenth street extended (grade)	1,000
Fourteenth street extended, Chapin, Stoughton, and Pomeroy streets (pave) ..	35,000

It is to be observed that most of this is designated for suburban village streets.

There is nothing which adds more to the desirability of Washington as a place of residence than well-constructed, smooth, wide country roads and suburban streets, over which people can comfortably ride and drive for health and recreation and which open up pleasant sections of country where people of limited means can build homes. I would urge the most liberal appropriations for this class of public improvements, and respectfully recommend that a sum not less than \$250,000 be appropriated for constructing county roads and suburban streets.

A schedule of the work for which appropriations are asked by the Commissioners is given at the end of this report.

ROCK CREEK ROAD.

It is respectfully suggested that if possible an appropriation of \$35,000 be secured for the construction of a road along the bank of Rock Creek from the Woodley road to the Rock Creek Ford road. I sincerely hope that this will be granted for if it is the drive will embrace the most beautiful and picturesque portion of the valley of Rock Creek.

I have reason to believe that the owners of the property along the creek will donate the land necessary for the road, which should in every case embrace at least 100 feet in width and go always to the water's edge. The provision should be made that no money should be used except upon land thus donated. This road would be the principal feature of the Rock Creek Park which has been desired so much and is so strongly advocated by those having the best interests of the city at heart.

The road along the portion of the creek named could be followed another year by building its extension along the remainder of the creek within the District limits. The portion of the creek valley above the Rock Creek Ford road is very much more open than it is below, but is very beautiful and almost entirely in a state of nature. This portion of the valley is better fitted for an extensive park, in my opinion, than the portion nearer the city where the valley is narrow and rocky but extremely beautiful. With a beautiful park of wide extent laid off in the valley of Rock Creek and the neighboring hills in the extreme north-western part of the District, and a fine, wide driveway along the picturesque banks of the creek to reach it, Washington would be supplied with a park unexcelled in beauty in the world.

If the road can once be built so that the citizens of Washington and our law-makers can go out and see for themselves the wondrous beauty and adaptability of this country for park purposes, the park would quickly follow.

PENNSYLVANIA AVENUE EXTENDED TO BOWEN ROAD.

The completion of the bridge at the eastern end of Pennsylvania avenue, thus bringing the country across the Eastern Branch into closer proximity to the heart of the city, demands that the avenue should be extended at least as far as the Bowen road, which is very near the District line. The proper line for this avenue extension is, as nearly as possible, the direct rectilinear extension of the present avenue.

N STREET WEST EXTENDED TO THE CONDUIT AND FOXALL ROADS.

There are now only two ways of getting out of Georgetown to the west; one is by the New Cut road, a narrow and hilly road on the extension of T street, and the other is by the Canal road, on the extension of Bridge or M street. This latter is a narrow, crowded, and disagreeable thoroughfare. The grounds of the Georgetown College stand in the way of the extension of the streets intervening between M and T.

The most practicable street to extend, and the one whose extension would be of the greatest benefit to Georgetown and the people coming from and going to the up-river regions, is N street, and it is to do this that the appropriation of \$10,000 is asked.

Under the head of "Suburban streets" I have estimated for the money to grade and improve Roanoke and Irving streets, from Seventh to Fourteenth, and Kenesaw, and Wallach streets from Seventh to Fourteenth.

Any one familiar with the region north of the Boundary knows that to get from Seventh to Fourteenth street it is necessary to go either south to the Boundary road or north to Whitney avenue, between the two—a distance of three-quarters of a mile there is no street opened. It is to meet the need of intercommunicating streets that the appropriations asked are recommended.

The streets named are already in legal existence, and are in proper and sufficient accord with the plan of street extension to warrant their permanent improvement.

The paving of Fourteenth street extended, should be completed to the top of the hill, and for this money is asked. It was, I believe, the intention of Congress last year to do this, but the money appropriated was not sufficient.

An appropriation of \$15,000 is asked for Brightwood avenue for the following reasons: The original and legal width of this avenue, the old Baltimore pike, was 90 feet, and this is its legal width now. But in improving it in years gone by the improvement was limited to a width of 66 feet, and people have been permitted to encroach upon and occupy the unimproved part. Investigation is in progress to determine the exact legal limits of the avenue, and to fix the amount and nature of the encroachment in each case. This is not yet completed, but enough is known to assure this office that there will be considerable expense attendant upon restoring it to its proper width. The press of the active work of street improvement prevents completing the investigation just now, but it will be carried to completion during the coming winter.

STREET EXTENSIONS.

There is no subject of more vital importance and interest to the city than the extension of streets into localities beyond the boundary.

The District has suffered for years from the lack of any authoritative

power to supervise subdivisions and the extension of streets, and in consequence many subdivisions have been made and streets laid out not in proper conformity with any reasonable plan of the extension of the city.

A bill has lately become a law, however, by which the Commissioners are given power to supervise all subdivisions, and are required to see that they are in accord with the general plan of the city. This law and the regulations established by the Commissioners are as follows:

[PUBLIC—No. 277.]

AN ACT to regulate the subdivision of land within the District of Columbia.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Commissioners of the District of Columbia be, and they are hereby authorized and directed to make and publish such general orders as may be necessary to regulate the platting and subdividing of all lands and grounds in the District of Columbia; and no such plat of subdivision made in pursuance of such orders shall be admitted to record in the office of the surveyor of said District without an order to that effect indorsed thereon by the Commissioners of said District.

SEC. 2. That all spaces on any duly recorded plat of land thereon designated as streets, avenues, or alleys shall thereupon become public ways, provided they are made in conformity with the provisions of section one of this act, and as such be under the protection of the laws and ordinances in force applicable to public roads out of said city.

SEC. 3. That if by the extension of any of the present streets or avenues, or the opening of any public way, it becomes necessary to traverse any grounds now used as a cemetery, or place of burial, the Commissioners are hereby empowered to secure a right of way through the same by stipulation with the proprietors thereof.

SEC. 4. That the orders of the Commissioners made pursuant to this act shall have the force and effect of law, thirty days subsequent to the day of publication; and all laws and provisions of laws inconsistent herewith are hereby repealed.

SEC. 5. No future subdivision of land in the District of Columbia, without the limits of the cities of Washington and Georgetown, shall be recorded in the surveyor's office of the said district unless made in conformity with the general plan of the city of Washington.

Approved, August 27, 1888.

OFFICE OF THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA,
WASHINGTON, December 6, 1888.

Ordered, That pursuant to the requirements of the act of Congress entitled "An act to regulate the subdivision of land within the District of Columbia," approved August 27, 1888, the following general orders to regulate the future platting and subdividing of all lands and grounds in the District of Columbia are hereby made:

2. All subdivisions of land must be approved by the Commissioners of the District of Columbia before being recorded in the office of the surveyor.

3. Applications for the approval of subdivisions by the Commissioners must be accompanied by certificates of the proper officials that all taxes, special assessments, and other public charges upon the property have been paid. No subdivision will be approved unless all taxes, special assessments, and such public charges on the property included are paid.

4. No public alley in the cities of Washington and Georgetown shall be less than 10 feet in width.

5. In case an alley has but one outlet, its inner bend must be made large enough to permit carriages and carts to turn around.

6. No land shall be subdivided into lots less than 12 feet in width.

7. No subdivision of land outside the cities of Washington and Georgetown will be approved unless the streets and avenues therein conform as far as practicable in width and general direction to the same streets and avenues in the City of Washington.

8. Whenever practicable, streets and avenues will be in exact alignment with the streets and avenues of the city of Washington, and of equal width.

9. Streets not in alignment with the streets of Washington, shall be not less than

90 feet in width, and shall be distant from each other not less than 300 nor more than 600 feet.

10. No minor street in a square shall be less than 60 feet in width.

11. The existing avenues of the city of Washington shall be extended as nearly as practicable in continuation of their direction within the city, and of equal width, and all subdivisions must provide therefor.

12. Existing avenues may be deflected beyond the city limits, wherever the Commissioners may deem advisable.

13. Besides existing avenues and their extensions, other avenues will be provided for in all subdivisions, wherever the Commissioners may deem it necessary to make the subdivision conform to the general plan of the city of Washington.

14. No new avenue will be less than 120 feet in width. If deemed necessary or desirable a greater width, up to 160 feet, may be required by the Commissioners.

15. Circles and public spaces will be required to be laid out and dedicated to the public wherever the Commissioners may deem the same necessary to make a subdivision conform to the general plan of the city of Washington.

16. Subdivisions laid out in conformity with these rules and regulations and approved by the Commissioners will in general form the basis for the subdivision of adjoining and neighboring lands.

17. In the regions directly along Rock Creek and elsewhere, where the topography is such as to render the adoption of the rectangular system of streets impracticable, special subdivisions will be permitted, the streets of which must, however, conform as far as practicable and join on to the rectangular streets and diagonal avenues of the general plan of the city of Washington extended into the county.

18. In the squares of all subdivisions without the cities of Washington and Georgetown, the Commissioners reserve the right to require public alleys to be provided, so that as far as practicable every lot shall abut thereon. When such alleys are required their entrances shall not be less than 12 feet in width, which 12 feet in width shall be not more than 75 feet in length; beyond this length in the interior of squares alleys must be not less than 20 feet in width. All blind alleys must have an enlargement at their inner ends to permit carriages and carts to turn around.

19. Outside the cities of Washington and Georgetown no subdivision of land into lots fronting on alleys only will be improved.

20. The names of all avenues, streets, circles and public spaces will be subject to the approval of the Commissioners.

21. The following scheme for naming these will be adhered to:

22. The broad diagonal highways will be designated as avenues, and will be named after the States of the Union.

23. Streets running north and south will be numbered each way from the meridian of the Capitol. If the streets are not direct continuations of city streets their names will correspond with the city streets most nearly due north or south of them.

24. Streets running east and west will be named from the letters of the alphabet until these letters are exhausted. Beyond this they will be named after the principal cities of America, the names of which commence with the letters of the alphabet in their proper order of rotation, as Albany street, Baltimore street, Chicago street, Detroit street, etc., etc. When the alphabet is thus exhausted the succeeding streets will be named for the principal rivers and lakes of America, the names of which commence with the letters of the alphabet in proper rotation, as Albemarle street, Brazos street, Champlain street, Des Moines street, etc.

25. Streets not in exact alignment with those to the east or west of them will take the names of those streets most nearly in the line of their direct continuation.

26. Small streets which do not form an essential part of the rectangular system of streets will be designated as "places" and will receive such names as may be approved by the Commissioners.

27. No two streets, avenues, or places in the District of Columbia shall have the same name.

28. Circles and other public spaces will be named after distinguished Americans who have been prominent in the service of their country

W. B. WEBB,

S. E. WHEATLEY,

CHAS. W. RAYMOND,

Commissioners of the District of Columbia.

Another bill is in the hands of Congress having for its object to correct existing faults in subdivisions and street extensions which have grown up in the regions just north of city. This bill should pass at the earliest possible moment for many reasons, as it is impossible to lay out or consider any comprehensive system of street improvements, water sup.

ply, or sewerage, while the streets are in their present uncertain and rambling condition.

REPAIR OF COUNTY ROADS AND SUBURBAN STREETS.

Appropriation 1887-'88	\$25,000.00
Expended	24,999.35

The details of this expenditure are given in the extract from the report of Mr. Beale, superintendent of county roads, herewith. The work was scattered all over the District, the different sections receiving improvements as follows:

Eastern section (east of Eastern Branch)	\$4,941.57
Central section (between Eastern Branch and Rock Creek)	14,049.42
Western section (west of Rock Creek)	6,008.36
	24,999.35

A portion of this expenditure was to pay the surveyor, District of Columbia, for establishing the lines of Tunlaw and New Cut roads and marking them with stone posts.

The appropriation for repairs to county roads and suburban streets for 1888-'89 is \$45,000. This will be expended in maintaining existing roads in the best possible condition.

It is recommended that at least \$60,000 be appropriated for 1889-'90.

FILLING STREETS BELOW GRADE.

Appropriation 1887-'88	\$10,000.00
Expended	2,324.89

The Comptroller of the Treasury having decided that this could only be expended on city streets, very little of it was used.

The current appropriation for 1888-'89 of \$15,000 has a much broader scope, being applicable to streets, roads, and alleys, and for grading down as well as filling up, the only limit being the price of 10 cents per cubic yard.

With this appropriation much good is being accomplished in securing grading of streets and roads at 10 cents per yard which would otherwise cost several times this amount.

For this purpose as much money should be appropriated as can be judiciously expended, and I would recommend that the same sum, \$15,000, be appropriated for 1889-'90 as for 1888-'89.

BRIDGES.

CONSTRUCTION AND REPAIR OF BRIDGES.

Appropriation 1887-'88	\$9,500.00
Expended	9,209.89

The expenditures in the county were divided as follows:

Eastern section	\$1,456.77
Western section	2,651.30
Central section	1,672.13

The principal items were—

For reflooring Benning's Bridge and repairs to causeway approach	\$2,487.84
New bridge over Broad Branch on Argyle Mill road	1,122.60
New floor and new timbers for Chain Bridge	1,482.30
Expenditures in the city in putting new floors to the M street and K street bridges over Rock Creek	1,209.92

The remaining expenditures were for inspection, material, minor repairs, etc.

The sum of \$12,500 is asked for the fiscal year 1889-'90, for construction and repairs.

ORDINARY CARE OF BRIDGES.

Appropriation 1887-'88	\$2,500.00
Expended	1,503.58

Total expenditure and obligations	1,503.58
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It has been found necessary to employ two men at the Anacostia Bridge to operate the draw, to reduce delays as little as possible.

The appropriation for 1888-'89 is \$2,500.

By the terms of the last appropriation bill the new bridge across the Potomac on the old aqueduct piers was transferred to the jurisdiction of the Commissioners, but no provision for a keeper was made. The next appropriation for 1889-'90 should be increased by \$660 to pay the salary of a keeper of this bridge.

Appropriation recommended 1889-'90, \$3,160.

There is one item in reference to bridges which demands special attention. It is the improvement of the existing bridge to Anacostia.

BRIDGE TO ANACOSTIA.

The bridge to Anacostia is a most unsatisfactory structure, very deficient in width for the travel over it. The draw, as now constructed and operated, is a very great annoyance to the people compelled to use the bridge. The bridge is deficient in strength; some of the piers have settled and are canted out of place. In order to prevent further settlement and deflection it will be necessary to re-enforce the existing piers.

The bridge is 20 feet in width with two sidewalks of 5 feet each. It is 1,256 feet long between end piers the floor is 9 feet above low water or 5 feet above high water. It has a draw-span of 30 feet on the Bascule principle, operated by man power. To raise and lower this draw and permit the passage through it requires ordinarily about half an hour. Frequently teams stopped extend the full length of the bridge and far up the street leading to it. The bridge being too low requires the draw to be raised to allow the passage of anything but a row-boat.

The present condition of things is the cause of great complaint, and I have examined into the matter carefully and recommend the following plan for the betterment of the bridge:

(1) That the bridge be raised 10 feet or more vertically, and the roads and streets leading to it be adjusted to its new grade.

(2) That the bridge be doubled in width by taking the six eastern spans and putting them beside the six western spans, and constructing a new draw-span which will form with the present draw-span a continuous passageway through the bridge whenever necessary.

(3) That an embankment be constructed in place of the six spans removed from the eastern part of the bridge. This embankment can be given the necessary slope to reach the grade of the bridge. The water of the river where it would be constructed is very shallow.

The height of the bridge above the water would permit the passage of nearly everything which would have any occasion to go above the bridge, and the draw would have to be opened but very seldom, but would be there when required.

ESTIMATE.

Estimated cost for reconstructing Anacostia Bridge, the work to include the removal of six spans on the Anacostia side and placing them beside the present bridge on the Washington side and constructing an earth causeway in place of bridge removed:

300 piles and driving, at \$10	\$3,000
50,000 feet B. M. timber and plank in foundation	1,500
1,000 cubic yards of masonry, at \$20	20,000
1,000 cubic yards of masonry, at \$12	12,000
Building one-span draw	1,500
3,200 cubic yards riprap around foundation	4,800
1,000 cubic yards riprap on causeway slope	2,000
Taking down and setting up six spans of bridge	5,000
37,000 cubic yards filling in causeway	18,500
3,700 square yards macadam road-way	2,220
Coffer-dam pumping and dredging	5,000
Floor beams, floor, and painting	1,500
	77,020
Contingencies, 10 per cent	7,702
Total	84,722
In round numbers, \$85,000.	

STREET RAILWAYS.

There is very little to add since the last annual report on this subject. Cars drawn by horses on cobble-stone tracks and T rails are still the predominating features of Washington tramway lines. Hundreds of thousands of dollars are annually expended to lay down first-class smooth pavements, but the railroad tracks are still allowed to be an aggravation and expense to all who drive through the streets. The car tracks are most annoying at street intersections. It seems to be practically impossible, under existing conditions, to keep these crossings in a satisfactory condition. At many of these street intersections two railways cross each other, and at these the evils are intensified, and the responsibility for keeping tracks in order is divided.

It is respectfully suggested that the paving of all railroad tracks and inter-rail spaces at all street intersections should be under the complete control of the District Commissioners, and to this end it is suggested that authority be secured from Congress requiring the Commissioners to do such paving and make such repairs thereto as they may think necessary or desirable on all railroad tracks at all street intersections, and charge the cost of the same to the railroad companies. If such a law should be passed, the most annoying and obnoxious feature of the street railroad tracks would be done away with.

HERDIC LINES.

I desire also to invite attention to the use and occupation of the city streets by omnibus or herdic lines.

These herdics are now run on many of the streets of the city, in some cases parallel with and in the same streets with railway lines. These heavy vehicles, following one another in almost the same track, at short distances apart, all day long and away into the night, are wearing out our smooth streets very fast, and are throwing a heavy additional burden upon the city for their repair.

As the street-car companies are compelled to pay for the paving of their tracks and the street surfaces 2 feet adjacent thereto, and keep

the same in repair, it would seem but just that the herdic companies should pay a portion of the expense of keeping the streets traversed by them in repair.

I would therefore respectfully suggest and recommend that a law be passed, properly framed, to require herdic lines to pay one-half of the expense of repairing and resurfacing the pavements of any street or avenue traversed by their vehicles.

STEAM RAILROADS.

Steam railroads still continue to occupy the public streets, to cross streets at grade, and to run their trains at high rates of speed in the city. The agitation in the public prints and in Congress has not yet had the much to be desired effect of settling the vexed railroad question. There are few things which would tend more to the satisfaction of the public mind than the final and definite location of the routes and grades of steam railroads within the city limits.

Situated as Washington is there need be and should be but one line of railroad entering and crossing the city, and that line should be substantially the one occupied by the Baltimore and Potomac Railroad and its southern connections.

The Baltimore and Ohio is so situated that it can readily be deflected to come into the city by the same route, and it should be compelled to do so. This would enable the two roads to arrange their tracks so that nearly all crossings would be above or below the grade of the streets in the more populated parts of the city, and would do away with dangerous grade crossings, and allow trains to be driven at a far higher rate of speed than is now permissible, with safety.

The passenger and freight depots for the Metropolitan branch could well be at the Boundary and New York avenue, where they could be reached by lines of street railways, etc. This would render it possible and practicable to relieve the northeast section from the great drawback under which it now suffers by being cut off from the rest of the city by the tracks of the Baltimore and Ohio.

It is not possible or practicable to relieve the southeast or southwest sections of the presence of the railroads. It is only possible to relieve them of their most obnoxious features.

ELECTRIC WIRES.

During the past year the electric wires of Washington used in telegraph, telephone, and electric-lighting service have been the subject of the most devoted attention from Congress, the people of the city, and the public press. It has been the aim of this office to restrain the growth of the overhead-wire system in every way possible consistent with proper service to the public.

An irrepressible conflict is going on all over the country against overhead wires in city streets, and the will of the people is that they must be buried, and buried they will be just as soon as their maintenance overhead is absolutely stopped.

Such investigation as I have been able to make convinces me that there is no practical difficulty in burying all these wires and maintaining the service at a higher state of efficiency, as far, at least, as the public are concerned, that can be done with overhead wires.

The most dangerous, unsightly, and obnoxious of all the wires, those used for electric lighting, both arc lighting under a high potential and

incandescent lighting under one much lower, can be maintained in underground conduits in the most perfect and efficient manner, beyond the shadow of a doubt. Science and improved appliances have overcome all difficulties which previously existed and rendered previous trials failures. There are companies who stand ready to enter into the most binding contracts to light the city and carry on the business of electric lighting wholly by an underground system of wires, and at prices as cheap or cheaper than those exacted by the existing electric-light company.

By the provisions of the current appropriation bill it was impossible to open the business of public electric lighting to competition.

The burying of telegraph lines will probably interfere, to a certain extent, with some of the more refined and profitable systems of telegraphy, but the affairs of the telegraph companies could be readily adjusted to the new condition of things.

The telephone company operating in the District has already buried a large part of its wires and finds no difficulty in doing so, and has for its aim to bury all its wires at the earliest date possible.

As Congress has required a report from the Commissioners as to "the best method of removing all electric wires from the air or surface of the streets, avenues, and alleys, and the best method of interring the same underground," etc., etc., and as this report is being made the subject of personal investigation by you, it is not deemed proper for me to say anything further on the subject.

UNDERGROUND TELEGRAPH CABLE.

During the year 676 feet of underground telegraph cable was laid by the engineer department for the telegraph and fire-alarm service.

EMERGENCY FUND.

Emergency fund \$5,000

Of this fund \$1,212.31 was expended by the engineer department to rebuild the retaining-wall at Potomac street and the Chesapeake and Ohio Canal. This wall developed serious cracks and became dangerous, and its repair became necessary.

IMPROVEMENT OF ROCK CREEK.

Rock Creek, within the city limits, is in an unsanitary condition, brought about chiefly by its receiving large amounts of sewage and the fact that its mouth is closed by the outlet lock and dam of the Chesapeake and Ohio Canal, causing a large stretch of comparatively stagnant and sewage-polluted water.

During the past year an investigation has been made with a view of suggesting a plan for the abatement of the nuisance, and the plan which follows is recommended not only for the good it will do in this respect but for many other reasons.

The plan proposed consists:

First. In condemning for street purposes the line of Twenty-fifth street extended in Georgetown across the point of land encircled by the creek and constructing under the street extension a pair of tunnels sufficient in capacity to carry the waters of the creek at all stages.

Second. To arch in the creek from the southern end of the tunnel to the south line of Pennsylvania avenue.

This route of tunnel and archway will give a comparatively straight line for the flow of water from Lyon's Mill to the mouth of the creek.

Third. When the tunnel and archway are completed the old creek bed could be filled in and the streets extended across in embankment, and ultimately the whole valley could be filled in and brought up to the grade of the surrounding country.

Fourth. The plan proposed would necessitate an extension of some of the sewers now emptying into Rock Creek at points from which the water is to be diverted.

The advantage of the adoption of this plan must be evident to any one familiar with the locality and who will give it due consideration.

In the first place, it will dispose of the objection to the creek on account of its sewage pollution.

In the second place, it will furnish ample and needed dumping-ground for many years to come. When consideration is given to the probable improvement in the northwestern section of the city and in Georgetown within the next few years the value of this dumping-ground for all material excavated for cellars, basements, alleys, streets, etc., is apparent. Already encroachment on the bed of the creek has commenced. This is a serious question, as the street department now is puzzled to find dumping-ground for the coming season's work.

In the third place, Rock Creek, as it now exists, is within the city's boundaries a perfect barrier to the complete unification of Washington and Georgetown. It would seem to be the natural tendency of events and the part of wisdom to do away with all possible natural and artificial divisions which tend to separate the District into sections. If Rock Creek could be obliterated as proposed Washington and Georgetown would have an identity of interests which, I believe, would inure to the benefit of both.

In the fourth place, the existing bridges over Rock Creek are inadequate and not at all in keeping with their importance or the other public works of the city.

The Aqueduct Bridge at the end of Pennsylvania avenue is unquestionably very deficient in width. For many years, since 1875, the cars of the Washington and Georgetown Railroad Company have been compelled to make a detour to another bridge on account of the supposed danger to this Aqueduct Bridge. For years, since 1875, signs have been posted on the bridge in conformity to law forbidding heavily loaded teams to cross, and watchmen are employed day and night at the Aqueduct office, with directions to see that the orders are not violated. Certainly such a condition of things on the principal thoroughfare of the District should no longer be endured. If the plan proposed for the improvement of Rock Creek is adopted this bridge can be replaced by a solid filling in of compact earth of the full width of the avenue.

The M street bridge, while of greater width, is in a dilapidated condition, and at its best is of the cheapest and most ordinary description.

The P street bridge, built many years ago, is far too narrow, and is altogether only suitable to a remote country district.

By the adoption of the plan proposed for the improvement of Rock Creek, both these bridges at M and P streets could be dispensed with, the crossing laid on solid embankments of the full width of the connected streets, and the bridges could be used for other localities in the county where they are needed.

There are other bridges needed for connecting the streets of Washington and Georgetown, which should be built if the plan herein proposed be not adopted.

In considering this plan, it should be borne in mind that a very large aggregate saving will be made by its adoption in building and maintaining bridges.

In the fifth place, the adoption of this plan would result in the reclamation of a large amount of land now of little value, but which would, if the plan proposed be carried out, be of very great value. It is also certain that if the plan proposed be carried into execution values of both Washington and Georgetown property would be very much enhanced.

PHYSICAL DATA.

The area drained by Rock Creek is about 45 square miles; the valley is about 21 miles in length, and consequently averages about 2 miles in breadth. The creek itself is very crooked and the bed is, for the most part, very rocky, and there are several mill-dams on it.

From the data available, I believe that the flood volume of the stream does not exceed 4,500 cubic feet per second. It is safely to carry this amount of water with a maximum depth of 12 feet that the work proposed has been designed.

This flood volume has been arrived at by considering the drainage of Rock Creek in comparison with the drainage area of other streams, the flood volumes of which are known; by considering the rain-falls which have been observed in the vicinity and the regimen of the creek as regards its rate of storm discharge, and by measuring the cross-sections of its flood volumes and estimating their velocity; with the available slopes, this water can be carried with a velocity of 8.58 feet per second, or 5.8 miles per hour.

In order to carry this water at this velocity there would be required a water-way of 529 square feet; as the depth allowable is 12 feet, the width of channel would be 44 feet.

It is deemed best, in the interests of economy and durability, to divide this width of 44 feet and make two channel-ways both in tunnel and archway. Another great advantage of the double channel would be that one could be withdrawn for repairs, in case any were needed, without interfering with the flow of water in the other, each single channel being amply able to carry the creek at moderate flood height.

Each tunnel, when completed, is to have a width of water-way of 24 feet, with a maximum depth of 12 feet. The area of water-way in each is 266.25 square feet, and this, with a slope of 1 in 1,000, gives a mean velocity of 8.58 feet, and a volume of 2,284 cubic feet per second; or, for the two tunnels, 4,568 cubic feet per second. The area at seven feet depth is 177.9 square feet, and the volume capable of being carried at this depth is 1,752 cubic feet per second; or, for the two tunnels, 3,504 cubic feet per second, which is believed to be the volume of an ordinary flood.

The tunnels are projected to be driven 30 feet apart in order to prevent damage being done in one by blasting in the other. Borings and croppings indicate the existence of rock at the location proposed for the tunnel, but its quality is indeterminate. It will, in any case be wise to line them, and this it is proposed to do with brick and stone masonry and a back filling of dry stone. The cross-section of each of the creek archways is 30 feet wide at the springing line of the arch, and has a maximum depth of 17 feet. Using 12 feet of depth, we have a water-way of 320 square feet, and this, with a slope of 1 in 2,000, will give a mean velocity of 7.4 feet and carry 2,368 cubic feet per second. The double archway will carry double this quantity or 4,736 cubic feet per second. The extra rise is given to the arches to secure greater strength.

It is designed to make the foundation walls of the archways of heavy rubble masonry, resting on the solid rock, and the arches themselves of concrete of fine quality.

The completion of the tunnel should be followed by the extension of the sewers now emptying into the portion of the creek from which it is designed to divert the waters. All these works should be carried on with a proper co-relation to secure the best results and to utilize the materials at hand and which may be excavated to the best advantage.

These masonry works being completed, all the portion of the creek lying in the big bend to the east of the line of Twenty-fifth street will be deflected, and the entire valley from Lyon's Mill to Pennsylvania avenue will become available dumping ground. There will probably be enough grading done in the next few years to fill up this portion of the valley. All the streets running both east and west and north and south could then be extended and joined, and thus Washington and Georgetown would be united in the most perfect manner.

COST OF THE WORK.

The following is the estimated cost of the work:

Condemnation line of Twenty-fifth street extended (assessed valuation of land and improvements, \$13,913.60)		\$40,000.00
Condemnation of property to extend N street to connect with Dumbarton and Gay streets, Georgetown, and Twenty-sixth street extended through squares 67 and 68		10,000.00
(Georgetown assessed valuation, about \$3,000.)		
Double tunnel, 920 feet long:		
Tunnel excavation, 26,000 cubic yards, at \$7	\$182,000	
Brick masonry, 6,106 cubic yards, at \$12	73,272	
Stone masonry, 1,704 cubic yards, at \$8	13,632	
Packing over arch, 6,000 cubic yards, at \$1.50	9,000	
		277,904.00
Double archway, 2,070 feet long:		
Excavations, 14,000 cubic yards, at \$1.25	17,666.67	
Stone masonry, 16,253 cubic yards, at \$8	130,024.00	
Concrete arch masonry, 15,333 cubic yards, at \$6	91,998.00	
		239,688.67
Sewer extension:		
500 feet brick sewer, 10 feet diameter, at \$20	10,000.00	
950 feet brick sewer, 14 feet diameter, at \$30	28,500.00	
		38,500.00
Engineering, inspection, and contingencies		53,907.33
		660,000.00

In connection with the construction of the tunnel and archway, it is proposed to condemn the land for the extension and connection of Twenty-sixth street in Washington and Georgetown, and the land to connect N street in Washington with Gay and Dumbarton streets in Georgetown. Then, the archway being first constructed in this locality, the débris from the tunnel could be used to fill over the archway, and thus complete at an early date those needed thoroughfares.

LE DROIT PARK.

Ever since I have been connected with District affairs, and for a long time before, Le Droit Park has been a thorn in the side of District officials.

It throws itself across the northern front of the city from about the location of Second street west to Seventh street west, a distance of nearly half a mile, and compels everybody to go around it, forbidding all attempts to make a throughfare through it. All this, notwithstand-

ing the fact that beyond the park live hundreds of industrious people. The residents of the park want city improvements, like water, sewer, and lighting facilities, and get them in many instances, but on different terms than are imposed on other portions of the District. These things produce many annoying complications. The streets of the park do not coincide with any proper plan for the extension of the city, but in my opinion the time has gone by when the advantage of straightening them out would be commensurate with the cost thereof, owing to the number of houses that would be destroyed or have to be moved. Besides this, the new reservoir and the Soldiers' Home grounds stand in the way of a complete extension of the city streets in the vicinity of the park, and irregularities and faults in the streets have not such serious consequences as they would have were the city at full liberty to extend its rectangular system over all the adjacent country.

Under all the circumstances, I think it would be the wisest policy to accept and adopt these streets as part of the city streets, and extend the same control and jurisdiction over them that is exercised over all other parts of the city. This is particularly the case with the streets running north and south, which should be opened up for the benefit of the public.

There are certain residents of the park who object to this, and it would probably be desirable and expedite the matter to resort to condemnation proceedings to obtain control of the streets. This would be merely formal, and would lead to no expense to the District, as there is, I believe, no person or persons who could give a clear title to the streets and receive any condemnation money, were any awarded by a jury.

DISTRICT STABLE.

In conducting the business of the District government a large amount of transportation is needed. Many of the horses are owned by the District, some are owned by the employes of the District but fed by the District, and some are hired.

The District does not own a stable in which they can be accommodated, and in consequence many of them are kept at livery at large expense, while others are quartered in sheds at the sand-lot and pumping station.

With the growth of the city the number of these horses must continually increase. It is beyond question that it would be a matter of economy for the District to own a stable sufficient in capacity to shelter the animals required in its service. I have therefore to recommend that an appropriation be asked and secured, if possible, to enable a stable to be built. I would furthermore recommend that if such action be necessary Congress authorize its erection on a part of the square of ground now used for wholesale-market purposes. There is plenty of room for the purpose on this square, and it is very centrally located. An appropriation of \$5,000 is asked.

PROPERTY YARDS.

In conducting the engineering work of the District there is absolute necessity for storage grounds in various sections. New materials, as curb, granite blocks, asphalt blocks and tiles, sewer pipe, water pipe, cement, sand, broken stone, etc., have to be received, inspected, stored, and cared for until used. Old material taken from one street has to be stored and worked over to fit it for use in some other location. Most of the material is very heavy and bulky and can not be hauled long

distances without great expense. Hitherto convenient storage grounds have been found in unimproved public parks and streets, but the growth of the city renders it no longer possible to use these without interfering with private and public interests.

I have therefore the honor to recommend that property yards be secured by purchase in different portions of the city. There should be one in the southern part of the city, somewhere near South Capitol street, one in the northeast, somewhere near the line of the railroad, and one in the northwest, near Rock Creek. The property purchased should be the cheapest obtainable which is suitable. I recommend that the sum of \$30,000 be appropriated to purchase these property yards.

PROPERTY DIVISION.

Notwithstanding the nominal transfer of the property division to another branch of the District government, the engineer department has, as heretofore, been compelled to make all specifications and contracts for material used in the department, and furnish men to receive, inspect, store and care for it, and issue it. A great deal of annoyance has resulted from the fact of the property division being nominally under one head, while for all matters pertaining to engineering material it is practically under another.

I would therefore recommend that this division be restored to the engineer department, where it has been ever since the organization of the present District government until its transfer last winter.

LIGHTING DIVISION.

Appropriation..... \$120, 000

A clause in the appropriation bill permitted the Commissioners to expend \$20,000 for electric lighting.

The following is the financial statement of the expenditure of this appropriation :

Condition of appropriation for street lighting, fiscal year ending June 30, 1888.

Date.	Receipts.	Amount.	Date.	Disbursements.	Amount.
1887. July 1 1888. June 30	To appropriation..... Baltimore and Potomac R. R. Co., amount refunded Baltimore and Ohio R. R. Co., amount refunded.	\$120, 000. 00 1, 390. 30 565. 75	1888. June 30	By Washington Gas-Light Company for street light- ing to date. By Georgetown Gas-Light Company for street light- ing to date. By United States Electric Light Company for street lighting to date. By erection and moving lamps. By purchase of lamp-posts. By painting lamp-posts and lanterns. By purchase of lanterns.. By purchase of street des- ignations. By removing and repair- ing lanterns. By balance	\$86, 355. 54 8, 447. 71 19, 489. 80 3, 198. 72 1, 883. 80 673. 81 1, 187. 50 582. 40 51. 30 85. 47
		121, 956. 05			121, 956. 05

Lamps in service on July 1, 1887.....	Number.
In service July 1, 1888	4, 547
New lamps lighted during year.....	4, 710
Lamps relighted during year	307
Discontinued during year	1
	145

The following table shows the location of the lamps erected according to sections.

Section.	Ordered.	Erected.	To be erected.	Cost.
Northwest.....	176	174	2	\$1,492.99
Northeast	85	80	5	641.98
Southeast	31	31	.....	424.20
Southwest.....	20	17	3	90.60
Georgetown	17	17	.....	106.79
Suburban roads and streets.....	45	44	1	295.66
Total	374	363	11	3,052.22

Including six posts erected for test of oil lamps, and four lamps erected by private parties but maintained by District of Columbia.

The following table shows the lamps moved :

Section.	Ordered to be moved.	Moved.	Cost.
Northwest (city)	4	4	\$66.40
Washington Heights.....	3	3	17.75
Northeast	1	1	2.50
Southeast	7	7	34.70
Georgetown	4	4	25.15
Total.....	19	19	146.50

During the year the lamps were burned 2,658 hours, an excess of 58 hours above the contract time. This was necessitated by the unusually stormy weather of last May.

Again I feel it my duty to express in the strongest possible manner my conviction that the number of hours of lighting should be increased from 2,600 to 3,000. The increase in the cost would be small compared with the benefit to be derived therefrom.

OIL LAMPS.

During the year 1887-'88 an experiment was made of lighting some of the alleys of the city with oil lamps, and it proved successful. There are many alleys and suburban localities where the gas mains have not yet been laid but which are in need of street lights. In these places it has been decided to use the oil lamps. Posts and lanterns are erected as for gas lamps and a contract made for supplying the illuminant and taking care of the lights in the same manner as for gas.

The appropriation for gas lighting for 1888-'89 is \$105,000. For the year 1889-'90 this should be increased to \$120,000. The city is growing so rapidly that new lamps are in constant demand.

If the lamps are to burn 3,000 hours this should be increased to \$138,000.

ELECTRIC LIGHTING.

Appropriation for 1887-'88, \$20,000.

Number of arc lights of 2,000 nominal candle power in service July 1, 1887..	40
Number of new lights added during year.....	65
Number in service June 30, 1888	105

Price paid during the year 65 cents per light per night. These electric lights were lighted from sunset to sunrise, and burned during the year 4,289 hours.

Appropriation for 1888-'89, \$30,000.

Contract has been entered into with the United States Electric Light Company to maintain 182 lights, located as follows:

Pennsylvania avenue, from First to Twenty-ninth streets	62
Seventh street, from Pennsylvania avenue to Boundary	41
F street, from Ninth to Fifteenth streets	19
M street (Georgetown), from Bridge to Thirty-sixth streets	16
Ninth street, from Louisiana avenue to K street	13
Eighth street, from Louisiana avenue to K street	6
Thirty-second street (Georgetown), from Prospect avenue to P street	5
B street, from Sixth to Seventh streets	5
E street, from Tenth to Thirteenth streets	4
Louisiana avenue, between Ninth and Tenth streets	3
New York avenue, from Fourteenth to Fifteenth streets	3
Fourteenth street, from New York avenue to F street	2
Northeast corner of Boundary and S street	1
Tenth street, between D and E streets	1
D street, between 9th and 10th streets	1
Total	182

The price to be paid is 50 cents per night per light.

The lights on Pennsylvania avenue and Fifteenth street, from First street west to Washington Circle, on New York avenue and Fourteenth street, are to be maintained by underground wires, all the others by overhead wires.

During the past year the lights on Pennsylvania avenue west, from Ninth street to Washington Circle, have been maintained by underground wires. The practicability of doing this successfully is demonstrated beyond question.

Electric arc lights can only be used advantageously on those streets and avenues of the city where there are few trees, and this must limit their use to a very small portion of the city. If electricity is to be substituted for gas in lighting the streets of the city it must in general be done by substituting incandescent lights for the gas-lights on all residence and other streets where there are many and large trees. The city would be lighted in an ideal manner if the main business streets and wide business avenues, wharves, etc., were supplied with the arc lights now in use, and on all other streets an incandescent electric light of 40 or 50 candle power were substituted for each existing gas-light of 16-candle power.

To reach this ideal all work should be directed, and, with this in view, I desire to invite your attention to the great desirability of the city owning and operating its own electric works. In many cities, after long, painful, and unsuccessful experience with private companies, the authorities have adopted the method of owning and operating their own works with eminent success in every respect, financially and otherwise. The works should be operated not only for public, but for private lighting and for power. Then there would be no wires in the streets used for those purposes except those belonging to the District, and the vexatious questions of overhead and underground wires would be far on the road to final and definite settlement, for the chief stumbling block, the pocket of the stockholder, would be eliminated.

I would recommend that the amount to be appropriated for the year 1889-'90 be \$40,000, and, in addition thereto, that the necessary sum be appropriated, laws enacted, and steps taken to enter upon the business of furnishing electricity for light and power on a broad and liberal basis.

PARKING COMMISSION.

Appropriation for 1887-'88.....	\$18,000.00
Expended	17,996.27

The following is the statement of work done, trees planted, etc.:

Number of trees in streets July 1, 1887.....	63,014
Number planted during fiscal year 1887-'88	2,633
Total.....	65,647
Old, decayed, and dangerous trees removed.....	650
Lost by storms.....	77
	727
Total number now on streets	64,920

(There were 400 young trees set out in the streets of the new subdivision of Brookland, the District furnishing the trees and doing the labor of planting and boxing, the holes having been prepared and boxes furnished by the proprietors of the land.)

Wooden boxes removed.....	4,440
Wooden boxes (made from old material).....	3,000
Trees protected with wire netting.....	4,636
Trees whitewashed	6,697

During the past year the complete and perfect success of the experiment of replacing the unsightly wooden tree-boxes with a protection of galvanized wire netting has been demonstrated. Wherever the change has been made the streets have been vastly improved in appearance and the people immediately interested have been delighted. This change from wooden boxes to wire netting for protecting the larger trees is so very desirable from every point of view, and the expense is so small compared with the benefits that I earnestly recommend that a special appropriation be made of enough money to complete the change on all the streets of the city.

I ask for this purpose a sum of \$10,000. In no other way can an equal amount of money be expended that will add so greatly to the beauty of the city.

The trees of Washington hold a very high rank among its chief attractions, and no reasonable expense should be spared to care for them in the most perfect manner and to add them to all streets as soon as they are prepared to receive them.

All country roads, as soon as they are made of proper width, should also be planted with trees so that in time shady country drives can be had in every direction.

The trees of Washington are undoubtedly of great benefit aside from their beauty in cooling and purifying the air in summer and breaking the force of wind and storm in winter. There is a great amount of work to be done, and which should be done, in connection with the trees, which can not be done with the appropriation of \$18,000, as annually made for a number of years past.

This appropriation should be increased to not less than \$20,000, and this, with the special item of \$10,000 asked for replacing the wooden boxes with wire netting, makes \$30,000, which sum it is earnestly recommended be appropriated.

PERSONNEL.

The growth of the city and the increased amount of improvements yearly appropriated for by Congress demand that additional help should be provided in the engineer department.

It has been deemed wise to place all the work of street improvements, including new work, current repairs, and permit work, under one head, the superintendent of streets. This officer receives \$2,000 annually. It is necessary that he should have an assistant, thoroughly skilled and reliable, who could give his entire time to looking after new work being carried on by contract. This assistant should receive not less than \$1,800 per year, and I have the honor to recommend that an assistant superintendent of streets be provided for at \$1,800 per year.

The salary of the superintendent of lamps, \$900 per year, is altogether out of proportion to the importance of his duties. This was the amount paid by the District of Columbia when the same man held the position of superintendent of lamps under the Commissioner of Public Buildings and Grounds and under the Architect of the Capitol. He received from each a salary, and his compensation amounted to about \$2,400 per year.

The offices were separated a few years ago, and it was only possible to pay the superintendent appointed by the District Commissioners the same \$900 per year which formerly formed only part of his compensation.

The salary of the place should certainly be not less than \$1,200 per year.

It is absolutely necessary to provide additional engineering force for doing the District work. At least two additional field parties should be provided for doing the work connected with street and road improvements. I would therefore recommend the following additional employés:

Two engineers, at \$1,500	\$3,000
Two rodmen, at \$780	1,560
Two axmen, at \$650	1,300

I would recommend that the salary of the draughtsman employed in the engineer department be increased to \$1,500 per annum. The present occupant of the position, Mr. Cole, is a rapid, skillful, and correct draughtsman, whose long service to the District deserves the recognition implied by the larger salary recommended.

Very respectfully, your obedient servant,

THOMAS W. SYMONS,
Captain of Engineers, U. S. Army.

Maj. C. W. RAYMOND,
Engineer Commissioner, District of Columbia.

B.—REPORT OF CAPT. JAMES L. LUSK, CORPS OF ENGINEERS, U. S. A., ASSISTANT TO THE ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

WASHINGTON, November 23, 1888.

SIR: I have the honor to submit the following report upon the operations of those branches of the engineer department now under my immediate supervision. These branches include the water, sewer, and pump divisions, the survey of the District, the office of the inspector of asphalt and cements, and the harbor front.

I assumed the above duties on June 4, 1888, relieving Capt. S. S. Leach, Corps of Engineers, by virtue of Special Orders No. 81, A. G. O., Washington, April 9, 1888.

In what follows I have adhered closely to the arrangement adopted by Captain Symons in his report of last year, and have repeated several recommendations made by him.

WATER DIVISION.

The following tables, 1 and 2, exhibit a summary of the operations of the distribution branch of the water division for the fiscal year 1888:

TABLE 1.

New mains laid.	Feet.	New mains laid.	Feet.
12 inches in diameter	731	3 inches in diameter	3,882
6 inches in diameter	8,487	Mains lowered	1,485
4 inches in diameter	9,100	Intersections laid	739
Valves changed to grade	20	Hydrants abandoned and removed	4
Valves repaired	95	Hydrants moved to curb	5
Fire hydrants erected	4	Hydrants repaired	923
Fire hydrants changed to grade	2	New drinking fountains erected	1
Fire hydrants moved	4	Drinking fountains repaired	90
Fire hydrants repaired	822	Services laid to curb	0
Taps made	1,394	Services lowered	370
New hydrants erected	0	Street washers and stops adjusted to new grade	392
New hydrants to replace old ones	28		

TABLE 2.—Summary statement of distributing system.

Mains.	Laid prior to June 30, 1887.	Laid during 1887-88.	Total June 30, 1888.
	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>
75 inches diameter	662		662
48 inches diameter	6,848		6,848
36 inches diameter	16,500		16,500
30 inches diameter	20,150		20,150
20 inches diameter	15,180		15,180
12 inches diameter	70,233	731	70,964
10 inches diameter	9,260		9,260
8 inches diameter	5,925		5,925
6 inches diameter	667,478	8,487	675,965
6 and 4 mains to fire hydrants	26,280		26,280
4 inches diameter and smaller	108,310	9,100	117,410
3 inches diameter	13,747	3,882	17,629
Total	960,573	22,200	982,773
Stop-valves	1,373	54	1,427
Fire hydrants	1,013	4	1,017
Street hydrants*	284		280
Service connections	27,639	1,603	29,242
Taps	22,095	1,394	23,489

* Four street hydrants have been abandoned.

Statement of fire hydrants, street hydrants, etc., in the several sections of the city.

	Fire hydrants.	Street hydrants.	Pumps.	Horse fountains.	Public fountains.
Georgetown	77	39	18	2	1
Northwest	583	125	121	38	31
Northeast	98	30	33	2	6
Southwest	105	45	51	4	
Southeast	154	41	74	3	1
Total	1,017	280	297	49	39

WATER TAKERS.

Table A, following, shows the sizes of the houses supplied with Potomac water for domestic purposes, and Table B, the number and character of the miscellaneous or business water-takers. The summary of these tables shows the comparative changes in the different sections of the city since last year. It appears that the northeast, southeast, and southwest sections have slightly gained, while Georgetown and the northwest section have lost, in percentages of houses supplied with water for domestic use. As regards percentages of miscellaneous water-takers, the southeast section has gained slightly, the northeast and southwest have not changed, while Georgetown and the northwest have fallen slightly behind.

TABLE A.—Houses in the District of Columbia supplied with Potomac water.

Front feet.	Two stories.				Three stories.				Four stories.					Five stories.					Six stories.		Eight stories.		Grand total.
	Georgetown.	Northwest.	Northeast.	Southwest.	Southeast.	Total.	Georgetown.	Northwest.	Northeast.	Southwest.	Southeast.	Total.	Georgetown.	Northwest.	Northeast.	Southwest.	Southeast.	Total.	Northwest.	Total.			
16	513	5,088	1,177	1,692	1,223	9,693	122	1,524	411	185	171	2,413	5	514	4	2	9	534	16	17	12,657		
17	55	346	139	85	122	747	19	319	48	53	52	491	1	200	6	5	5	212	14	17	1,467		
18	47	552	206	141	105	1,051	42	656	106	110	110	1,024	13	231	43	5	20	312	8	17	2,395		
19	18	181	70	29	22	320	11	377	55	9	59	511	4	139	5	1	12	161	4	8	3,996		
20	146	838	59	172	210	1,425	67	726	90	95	104	1,082	19	610	45	10	13	697	36	41	3,245		
21	31	142	20	34	29	256	24	162	14	22	16	238	6	133	23	6	16	179	9	11	3,684		
22	41	178	28	49	49	345	28	287	24	43	40	422	7	209	16	1	9	247	15	15	1,029		
23	18	62	9	11	10	110	27	116	10	11	12	176	8	129	4	6	3	145	9	9	1,440		
24	23	77	14	31	24	169	27	183	13	17	3	243	6	206	7	6	3	228	18	19	660		
25	15	107	20	27	15	184	25	255	12	20	14	326	9	292	6	8	5	320	23	24	854		
26	5	46	7	3	5	66	11	269	2	6	6	294	4	86	4	1	1	95	16	17	472		
27	1	16	1	4	2	24	5	33	1	3	1	40	9	50	2	1	1	63	14	14	141		
28	10	28	3	2	3	46	9	40	4	3	5	61	1	47	3	1	1	53	6	6	166		
29	2	13	1	2	2	18	2	17	—	—	—	19	4	18	—	1	1	24	5	5	66		
30	6	30	—	—	5	46	14	39	—	—	—	58	2	48	—	2	1	53	3	3	160		
31	—	2	—	—	—	2	2	18	—	—	—	21	—	11	—	—	—	14	1	1	38		
32	4	4	—	—	—	12	5	13	—	—	—	22	—	12	—	—	—	15	2	2	51		
33	4	1	—	—	3	13	5	11	—	—	—	18	—	10	—	—	—	11	1	1	43		
34	3	5	—	—	3	13	4	10	—	—	—	17	—	17	—	—	—	17	—	—	47		
35	3	5	—	—	5	14	3	16	—	—	—	21	—	14	—	—	—	14	—	—	51		
36	—	2	—	—	—	4	3	24	—	—	—	28	—	13	—	—	—	25	—	—	103		
37	—	2	—	—	—	3	2	1	—	—	—	5	—	2	—	—	—	9	—	—	14		
38	4	1	—	—	—	8	1	10	—	—	—	11	—	23	—	—	—	14	—	—	30		
39	4	6	—	—	—	5	2	4	—	—	—	9	—	10	—	—	—	6	—	—	16		
40	6	1	—	—	3	19	4	26	—	—	—	33	—	47	—	—	—	50	—	—	16		
41	—	6	—	—	—	1	—	4	—	—	—	4	—	9	—	—	—	9	—	—	16		
42	1	6	—	—	—	7	2	6	—	—	—	9	—	13	—	—	—	6	—	—	30		
43	—	2	—	—	—	3	—	3	—	—	—	7	—	5	—	—	—	6	—	—	16		
44	—	2	—	—	—	7	—	6	—	—	—	9	—	21	—	—	—	22	—	—	39		
45	—	7	—	—	—	2	—	3	—	—	—	3	—	10	—	—	—	11	—	—	18		
46	—	2	—	—	—	2	—	2	—	—	—	2	—	2	—	—	—	2	—	—	6		
47	—	1	—	—	—	1	—	6	—	—	—	8	—	6	—	—	—	6	—	—	18		
48	—	—	—	—	—	1	—	1	—	—	—	1	—	2	—	—	—	2	—	—	3		
49	—	—	—	—	—	1	—	11	—	—	—	15	—	18	—	—	—	21	—	—	49		
50	—	—	—	—	—	6	—	1	—	—	—	1	—	2	—	—	—	2	—	—	5		
51	1	1	—	—	—	2	—	1	—	—	—	1	—	2	—	—	—	2	—	—	—		

TABLE A.—Houses in the District of Columbia supplied with Potomac water—Continued.

Front feet.	Two stories.					Three stories.					Four stories.						Five stories.				Six stories.		Eight stories.		Grand total.
	Georgetown.	Northwest.	Northeast.	Southwest.	Southeast.	Total.	Georgetown.	Northwest.	Northeast.	Southwest.	Southeast.	Total.	Georgetown.	Northwest.	Northeast.	Southwest.	Southeast.	Total.	Northwest.	Total.	Northwest.	Total.			
52	.....	.....	.....	.....	.....	2	.....	2	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	1	.....	5		
53	.....	.....	.....	.....	.....	3	.....	3	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	5		
54	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	3		
55	1	.....	.....	.....	.....	3	.....	3	.....	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	7		
56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6		
57	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	3		
58	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1		
60	2	.....	.....	.....	.....	2	2	.....	.....	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	16		
61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1		
62	1	5	.....	.....	.....	6	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	9		
64	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1		
66	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	2		
68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	3		
69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2		
72	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1		
74	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1		
75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7		
76	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	1		
80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1		
82	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1		
88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1		
96	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1		
127	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1		
	972	7,766	1,766	2,294	1,845	14,643	478	5,197	800	583	606	7,664	109	3,201	173	48	102	3,633	227	14	242	5	5	1	26,188

TABLE B.—*Miscellaneous water-takers.*

Miscellaneous.	George- town.	NW.	NE.	SW.	SE.	Total.
Armories		2				2
Barber shops	4	103	8	7	6	128
Bakeries	7	44	7	18	9	85
Banks	1	13				14
Bar-rooms	12	244	28	63	24	351
Bicycle schools						
Boarding-houses		96	34		6	136
Breweries		2	2	1	1	6
Bottling depots	1	4	1	6	1	13
Book binderies		4				4
Baths	1	2				3
Churches	11	39	4	7	4	65
Colleges	1	12				13
Club-rooms		7				7
Dining-rooms		22				22
Dye-houses	1	13			1	15
Florists		3			1	4
Foundries	3	5		2		10
Gas engines		3	1	1		5
Greenhouses	2	7	3		1	13
Halls	3	40		1	5	49
Hotels		33				33
Hospitals		2		1	1	4
Laundries		33		3	3	39
Manufactories		13	1			14
Market-houses	1	4			1	6
Mills	6	2	1	2		11
Orphan asylums		3				3
Offices	14	763	4	6	5	792
Printing-houses		13				13
Police-stations	1	4	1	1	1	8
Photograph galleries		25				25
Restaurants	6	225	3	5	9	248
Railroad stations		2				2
Stables, livery	3	49	1	1	5	59
Stables, private	42	559	52	2	6	717
Schools, public	4	24	10	3	5	46
Schools, private	1	23	1	2	1	28
Shops	9	123	6	1	6	151
Steam boilers		56	2	1		59
Steam-engines	15	62	6	11	5	99
Slaughter-houses		1	3			4
Stores	362	926	16	52	57	1,413
Stone-yards		5	3	2		10
Theaters		4				4
Warehouses	4	30	3	7	3	47
Wood and coal yards		11	1		1	13
Brick yards			1		2	3
Museums				3		3
Steam-boat wharves				6		6
Factory	1				1	2
Convents	1	1				2
Car stables	2	3	1	3	2	11
Total	514	3,643	206	233	231	4,827

These tables may be summarized as follows:

	1887.		1888.		Relative gain.	Relative loss.
	Number.	Per cent.	Number.	Per cent.		
Georgetown	1,515	.0612	1,559	.0595		.0017
Northwest section	15,579	.6322	16,397	.6262		.0060
Northeast section	2,496	.1013	2,753	.1053	.0040	
Southwest section	2,705	.1098	2,925	.1117	.0019	
Southeast section	2,355	.0955	2,554	.0973	.0018	
Total number of houses supplied with water for domestic purposes	24,659		26,188			
Georgetown	513	.108	514	.107		.001
Northwest section	3,602	.757	3,643	.755		.002
Northeast section	201	.042	206	.042		
Southwest section	232	.049	233	.049		
Southeast section	226	.044	231	.047	.003	
Total number of miscellaneous water takers	4,743		4,827			

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Financial statement for fiscal year 1887-'88.

Receipts from July 1, 1887, to June 30, 1888:

Water tax:		
Current tax.....	\$19,939.91	
Advertised tax.....	8,605.53	
		\$28,545.44
Interest:		
On current tax.....	598.86	
On advertised tax	5,120.55	
		5,719.41
Water rents.....		171,892.49
Water taps for services.....		4,182.00
Permits for attachments, repairs, etc		4,809.92
Total.....		215,149.26

Expenditures from July 1, 1887, to June 30, 1888, inclusive:

Salaries		9,536.00
Contingent expenses.....		*2,367.64
Refunds:		
Water rents.....	982.27	
Water-main taxes.....	342.60	
		1,324.87
Purchase of new pumping engines and boilers.....		6,216.21
Pumping expenses and pipe distribution:		
Washington pump-house	\$10,496.63	
Georgetown pump-house	6,460.29	
Total pumping expenses.....		16,956.92
New mains, labor....	6,589.33	
New mains, material.....	†21,405.37	
Total for new mains.....		27,994.70
Fire hydrants, labor	69.50	
Fire hydrants, material.....	550.13	
Total for fire hydrants		619.63
Repairs, inspections, changes, and all general expenses of water service, labor, and material.....		31,331.21
		‡76,902.46
Interest and sinking fund on account of water-stock bonds		31,485.00
Interest and sinking fund on account of increasing water-supply.....		57,239.02
Total interest and sinking fund.....		88,724.02
§ Interest and sinking fund on account of increasing water-supply:		
Interest	27,001.42	
Sinking fund.....	49,654.27	
Total.....		185,071.20

* Of this amount there was expended the sum of \$2.98 from the appropriation for contingent expenses, 1886-'87.

† A large part of this material was on hand at the close of the fiscal year.

‡ Of this amount there was expended the sum of \$239.85 from the appropriation for pumping expenses and pipe distribution, 1885-'86, and the sum of \$1,046.43 from the same appropriation, 1886-'87.

§ This item of \$76,655.69 was not advanced to the Treasurer United States until July 3, 1888, three days after the close of the fiscal year, and is not included in expenditures.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 279

Water tax levied during the year	\$21,594.48
Water tax arrears, June 30, 1888:	
Amount subject to exemption, act of March 3, 1881.....	\$4,113.78
Amount charged against District of Columbia property...	1,391.79
Amount collectible	47,499.04
Total amount water-tax arrears, June 30, 1888.....	53,004.61
Total amount of money standing to the credit of water fund on books of United States Treasury, June 30, 1888.....	101,785.14

Organization of and estimates for the water division for 1889 '90.

One chief clerk	\$1,800.00
One superintendent	1,800.00
Two clerks, at \$1,400	2,800.00
One clerk, at \$1,200	1,200.00
One clerk, at \$1,000	1,000.00
One messenger	600.00
One inspector	1,000.00
Six inspectors, at \$900	5,400.00
One draughtsman	1,500.00
Total	17,100.00
Contingent expenses.....	3,000.00
Pumping expenses and pipe distribution :	
Pumping expenses	\$16,000.00
Repairs and maintenance.....	20,000.00
Fire hydrants.....	5,000.00
Service mains.....	40,000.00
Supply mains	5,500.00
Total	86,500.00
Interest and sinking fund, water-stock bonds	44,610.00
Sinking fund on account of increasing the water supply	53,015.73
Interest on account of increasing the water supply	33,399.91
Total estimates.....	237,625.64

Comparative statement of revenues, actual and estimated.

Fiscal year.	Water rents.	Water taxes.	Taps.	Permits.	Total revenues.
1884-'85.....	\$118,528.20	\$20,578.88	\$3,402.00	\$3,076.09	\$145,585.17
1885-'86.....	124,896.22	36,162.04	5,096.00	3,459.03	169,613.29
1886-'87.....	138,539.49	47,183.24	6,012.00	4,846.45	196,581.18
1887-'88.....	171,892.49	34,264.85	4,182.00	4,809.92	215,149.26
Estimated 1888-'89	190,000.00	52,000.00	6,000.00	5,000.00	253,000.00
Estimated 1889-'90.....	205,000.00	52,000.00	6,000.00	6,000.00	269,000.00
Balance due water fund, in United States Treasury June 30, 1888.....					\$101,785.14
Estimated revenues, 1888-'89.....					253,000.00
					354,785.14
Interest and sinking fund on account of increasing water supply, not advanced until after July 1, 1888					76,001.42
Deficiency items in appropriations to July 30, 1888.....					2,070.56
Expenditures since July 1, 1888, on account of fiscal year 1888					29,230.76
Total					107,302.74
Estimated expenditures, 1888-'89					247,482.40
					354,785.14
Estimated revenues, 1889-'90					269,000.00

With this amount it is proposed to use the appropriation asked for, \$237,625.64, after returning to the United States Treasury the sum of \$31,000 it has advanced to lay the new Fourteenth street water main.

The estimates for salaries and contingent expenses do not call for any particular comment; in the aggregate they are less by \$3,000 than the corresponding estimates of last year.

The item of \$16,000 for pumping expenses is intended to cover the total cost of the Washington and Georgetown pumping stations, including labor, fuel, oil, repairs, and contingencies. The estimate does not differ from that of last year.

The item of \$20,000 for repairs and maintenance is believed to be a fair estimate of the cost of keeping in order the entire system of mains, repairing fire hydrants and street hydrants, as well as leaks or possible breaks in the mains, and of tapping the mains, applying tap-cocks, and turning off and on water.

The whole of the item of \$5,000 will be needed to erect fire hydrants in areas of valuable property now inadequately protected from fire.

The item of \$40,000, estimated to meet the cost of laying service mains, is less than what will probably be needed to keep pace with the growth of the city. The sum asked would have been materially larger, had it been thought that the state of the revenues would permit the expenditure.

Only one supply main is proposed for construction, viz, the connecting main on Seventeenth street northwest, between the 30-inch and 36-inch mains. Its cost is estimated at \$5,500. It should undoubtedly be constructed, in order to minimize the inconvenience arising from a local break in either of the large mains named.

Many of the service mains in use were laid a number of years ago with defective material. Recent experience of the water division leads to the belief that when a new supply of water is turned on, a considerable proportion of these old mains will be ruptured by the higher pressures, and must be replaced with the slightest possible delay. To deal vigorously with this matter, the water division must approach the period when the new supply becomes available, with an ample reserve of material and sufficient available funds to insure prompt action.

It must therefore be borne in mind that the above estimates do not at all correspond to the actual needs of the distribution system, which demands greater expenditures to enable it to keep up with the growth of the city, and to meet emergencies. The estimates presented would have been considerably higher, but for the fact that a large part of the revenues will be needed to meet charges for interest and sinking fund.

The water division would experience a great and lasting benefit, if legislation could be procured toward applying a portion of the general fund of the District to the extinguishment of the debt of, and interest charges against, the water fund. This would be no more than fair, since the latter fund now bears, and for years has borne, the expense of furnishing water without cost to churches, hospitals, and benevolent institutions; to all District buildings, establishments, and public works; to many thousands of families which use water from street hydrants, and for street-sprinkling, flushing sewers, and protecting property from fires.

<i>Summary of estimates for the water division, 1888-'90.</i>	
Salaries	\$17, 100. 00
Contingent expenses	3, 000. 00
Pumping expenses and pipe distribution	86, 500. 00
Interest and sinking-fund account	131, 025. 64
Total	237, 625. 64

There are submitted below five tables relating to the finances of the water division.

TABLE NO. 1.—Statement of assessments and collections of water-main tax from July 1, 1878, to June 30, 1888.

Fiscal year.	Amount as- sessed.	Duplicate payments and over- payments.	Six per cent. abate- ment.	Amount of tax can- celed subse- quent to July 1, 1878.	Amount collected July 1, 1878, to June 30, 1888.	Amount out- standing July 1, 1888, subject to ex- emption act of March 3, 1887.	Amount of collectible tax out- standing July 1, 1888.
(*)	\$94,054.49	\$154.31	-----	\$3,271.71	\$77,303.13	\$1,060.10	\$9,573.86
1879	11,488.89	38.96	\$138.54	79.24	10,369.82	53.68	886.57
1880	4,965.13	-----	156.40	-----	4,675.08	-----	133.65
1881	7,775.35	-----	265.78	316.07	6,392.62	-----	800.88
1882	3,313.89	-----	67.40	-----	2,885.13	-----	361.36
1883	3,495.75	-----	91.62	-----	3,324.69	-----	79.44
1884	23,325.37	-----	399.73	281.06	18,400.38	-----	4,244.20
1885	27,492.36	.39	662.58	-----	22,502.73	-----	4,327.44
1886	40,547.79	2.00	1,311.03	1,003.72	29,962.55	-----	8,272.49
1887	47,345.86	67.44	1,458.17	206.24	32,929.50	-----	12,624.39
1888	21,594.48	342.60	†195.00	1,123.54	13,711.51	-----	6,194.76
Total.....	285,399.36	605.70	5,653.52	6,281.58	222,457.14	4,113.78	47,499.04

RECAPITULATION.

Total amount of assessment, plus duplicate payments	\$286,005.06
Amount of abatement at 6 per cent	5,458.52
Amount of abatement allowed property owners, College Hill	†195.00
Amount of tax collected and struck off the books since July 1, 1878:†	
By order of the Commissioners, various dates	2,885.26
By reason of issue of erroneous tax certificates	332.38
By act of Congress for relief of E. W. Patterson, approved June 13, 1885	215.68
By reason of subdivision of property	816.17
By amount charged against District of Columbia	1,391.79
By amount charged against United States	640.30
Amount of tax collected from July 1, 1878, to June 30, 1888	222,457.14
Amount outstanding July 1, 1888:	
Subject to exemption act of March 3, 1881	4,113.78
Collectible tax	47,499.04
	286,005.06

* Amount of tax outstanding uncollected July 1, 1878.

† Amount of abatement allowed property owners on College Hill for amount paid by them to R. A. Charles.

On this amount \$46.17 was canceled January 10, 1888, on account of being assessed 1866.

TABLE II.—Statement of receipts of the water department, District of Columbia, from July 1, 1878, to June 30, 1888.

Fiscal year.	Balance on hand July 1, 1878.	Mains to Govt. Printing Office.	Water-main tax.		Interest water-main tax.		Water rents.	Taps.	Permits and other sources.	Total receipts.
			Advertised.	Current.	Advertised.	Current.				
Balance on hand July 1, 1878	\$16,809.42									\$16,809.42
Received year ending June 30—										
1879			\$6,195.59	\$12,463.10	\$1,635.96	\$1,059.53	\$43,574.24	\$1,986.00	\$2,139.25	69,053.67
1880			10,248.87	11,926.81	3,457.43	1,340.18	165,641.42	1,980.00	2,188.10	196,782.81
1881			3,200.38	18,368.39	1,228.94	4,040.08	109,737.83	1,851.00	1,915.72	*140,342.34
1882		\$2,800.00	4,017.92	3,305.50	2,086.07	392.34	101,621.10	1,815.00	1,789.71	117,827.64
1883		1,750.00	7,320.13	5,467.96	3,769.83	350.54	65,752.24	2,193.00	2,188.72	88,792.42
1884			3,563.12	8,700.53	2,385.59	122.42	119,610.20	2,373.00	2,418.79	139,173.65
1885			3,282.57	14,430.22	2,598.81	267.28	118,528.20	3,402.00	3,076.09	145,585.17
1886			3,564.81	29,631.30	2,343.44	622.49	124,896.22	5,096.00	3,450.03	169,613.29
1887			7,630.50	34,874.59	3,183.62	1,494.53	138,539.49	6,012.00	4,846.45	196,581.16
1888			8,605.53	19,939.91	5,120.55	598.86	171,892.49	4,182.00	4,809.92	215,149.26
Repayments during various fiscal years.										431.20
Total	16,809.42	4,550.00	57,629.42	159,108.31	27,810.24	10,288.25	1,159,793.43	30,890.00	28,831.78	1,496,142.05

* December 10, 1880, there was collected \$10.75 on account of water-main tax (advertised) which sum was deposited to the credit of "Arrears of General Taxes."

TABLE III.—Expenditures.

Expenditures in—	Purchase of new pumping engines and boilers.	Material and labor, pumping expenses, and pipe distri- bution.	Salaries, water de- partment.	Contingent expenses.	Water rent re- funded.	Water- main tax refunded.	Interest on wa- ter-main tax refunded.	Erection of stand- pipe.	Water main to Government Printing Office.	Total. expendi- tures.
1879		\$14,871.89	\$7,710.00	506.09	\$164.51	\$29.12	\$9.07	\$29,395.40	.....	\$82,686.08
1880		48,752.55	10,417.61	962.19	32,130.10	35.26	15.47	3,237.47	.....	95,550.65
1881		52,781.67	16,830.01	1,141.10	284.69	.....	5.55	1,580.39	.....	66,623.40
1882		42,334.11	11,670.23	.....	152.21	9.14	7.18	.....	.....	54,172.87
1883, on account of 1882		3,523.73	.....	.....	.....	.....	.....	.....	.....	3,523.73
1883, on account of 1883		43,551.24	9,339.00	1,009.43	303.38	38.96	22.41	.....	\$5,599.94	59,864.36
1884, on account of 1883		5,950.26	.....	819.23	.....	.....	.....	.....	.....	6,769.49
1884, on account of 1884		46,454.04	9,339.00	1,548.12	590.01	80.79	82.78	.....	3,346.27	61,441.01
1885, on account of 1883		102.00	.....	8.75	.....	.....	.....	.....	.....	110.75
1885, on account of 1884		941.11	.....	223.61	.....	.....	.....	.....	.....	1,164.72
1885, on account of 1885		79,878.66	9,312.90	1,954.07	373.44	.....	.....	.....	.....	91,519.07
1886, on account of 1885		17,472.69	.....	109.83	.....	.....	.....	.....	.....	17,582.52
1886, on account of 1886		58,655.72	9,339.00	2,148.63	385.08	.....	.....	.....	.....	70,528.43
1887, on account of 1885				8.00	.....	.....	.....	.....	.....	8.00
1887, on account of 1886		10,847.18	.....	239.68	.....	.....	.....	.....	.....	11,086.86
1887, on account of 1887		73,598.68	9,522.20	2,392.26	580.77	59.57	.....	.....	.....	86,153.48
1887, on account of 1888		16,796.19	.....	.....	.....	.....	.....	.....	.....	16,796.19
1888, on account of 1886		239.85	.....	.....	.....	.....	.....	.....	.....	239.85
1888, on account of 1887		1,046.43	.....	2.98	.....	.....	.....	.....	.....	1,049.41
1888, on account of 1888	\$6,210.21	75,616.18	9,536.00	2,364.66	982.27	312.60	.....	.....	.....	95,057.92
Total	6,210.21	623,414.18	97,015.94	15,438.63	35,946.46	505.44	142.46	34,213.26	8,946.21	821,928.79

TABLE IV.—*Advances to Treasurer United States.*

Fiscal year.	Interest and sinking fund, water-stock bonds.	Interest and sinking fund, increasing water supply.	Total interest and sinking fund.
Advanced to Treasurer United States, <i>ex-officio</i> commissioner of sinking fund, District of Columbia:			
1880	\$74,025.00	.....	\$74,025.00
1881	74,123.77	.....	74,123.77
1882	43,796.08	.....	43,796.08
1883	44,610.00	.....	44,610.00
1884	44,575.00	.....	44,575.00
1885	44,610.00	\$13,686.23	58,296.23
1886	31,485.00	55,047.27	86,532.27
1887	57,735.00	.....	57,735.00
1888	31,485.00	57,239.02	88,724.02
Total	446,444.85	125,972.52	572,417.37

RECAPITULATION.

To amount collected, of which there has been deposited in the United States Treasury and credited to water fund the sum of	\$1,496,142.05
By amount expended from July 1, 1878, to June 30, 1888	821,928.79
By amount advanced to Treasurer United States, <i>ex-officio</i> commissioner sinking fund, District of Columbia, during said period	572,417.37
By amount collected on account of water-main tax, and deposited to credit of general taxes December 20, 1880	10.75
Balance to credit of water fund, District of Columbia, July 1, 1888	101,785.14
	1,496,142.05

TABLE V.—*Statement of the length and cost of water mains laid from July 1 to June 30, 1888.*

Fiscal year.	30-inch.	20-inch.	12-inch.	10-inch.	8-inch.	6-inch.	4-inch.	3-inch.	Cost.
	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	
1879	39½	.....	3,791	.....	.....	12,781	30	.....	\$14,846.20
1880 .....	.....	.....	7,409	.....	.....	8,546	1,397	.....	19,436.03
1880 .....	.....	.....	.....	.....	.....	*3,024	.....	.....	.....
1881 .....	.....	.....	.....	.....	.....	3,709	.....	.....	3,110.70
1882 .....	.....	.....	.....	.....	.....	1,920	.....	.....	1,626.43
1883 .....	.....	.....	1,625	.....	26	4,084	.....	.....	8,073.70
1884 .....	.....	.....	1,038	.....	.....	8,972	.....	.....	10,492.51
1885 .....	.....	.....	963	.....	.....	27,766	358	485	25,865.35
1886 .....	.....	.....	1,938	791	.....	35,192	.....	6,623	40,025.10
1887 .....	.....	4,830	† 1,099	2,944	.....	29,021	280	7,124	56,951.00
1888 .....	.....	.....	731	.....	.....	8,487	9,100	3,882	17,626.63
Total	39½	4,830	18,644	3,735	26	143,502	11,165	18,114	\$198,053.65

* Laid on Road street, Georgetown, to replace old cement pipe.
† 1,074 feet to United States Library site, cost not included herein.

The headings and foot-notes accompanying Tables I, II, III, and IV sufficiently explain those tables, which do not seem to require more extended comment.

From Table V it appears that from July 1, 1878, to June 30, 1888, there was laid a total length of 200,055½ feet of mains, at a total cost of \$198,055.65, or an average of a little less than \$1 per linear foot.

The amount of water-main tax assessed during the ten years in question was \$191,344.87, while the amount collected, part accruing from preceding years, was \$202,403.98.

The cost of laying the mains during the ten years, exceeded the amounts assessed for water-main taxes during the same period, by \$6,708.78. The cost of the fire hydrants erected during this period, which is also

supposed to be met from the water-main tax, was, as nearly as can be estimated, \$17,760. Therefore, the water-main tax has failed to meet the cost of mains and fire hydrants during the ten years in question, by \$6,708.73 plus \$17,760, or \$24,468.78.

The conclusion seems to be irresistible that the water-main tax should be increased. I therefore recommend that the rate be changed from $1\frac{1}{4}$ cents, as at present, to $1\frac{1}{2}$ cents per square foot of the property benefited.

In this connection it must be remembered that the expense incident to laying mains in streets, constantly increases with the multiplication of underground obstacles in the shape of sewers and laterals, gas mains, water mains, conduits for wires, vaults, and service pipes for water and gas. The avoidance of these obstacles entails increased expense, either in requiring an extra depth of excavation in order to pass entirely beneath them, or in cutting out and replacing portions of them without impairing their efficiency for their peculiar work.

I present herewith a table showing the cost of each main laid during the year, and the corresponding assessment :

TABLE C.—Statement showing the cost of water mains laid during the fiscal year 1887-'88, and the assessment levied therefor.

Street.	Street between.	Size.	Length.	Cost of material.	Cost of labor.	Total cost.	Amount of assessment.	Excess of assessment over cost.	Excess of cost over assessment.
North side B	Thirteenth and Fourteenth northwest.	Inch. 4	Lin. ft. 304	\$155.14	\$118.82	\$273.96	\$253.79		\$20.17
North side Q	Twenty eighth and Twenty-ninth northwest	4	312	99.92	86.91	186.83	229.60	\$42.77	
South side R	Fifteenth and Sixteenth northwest	6	270	140.10	97.01	237.11	329.79	92.68	
In alley	Twelfth and Thirteenth and E and F northwest	3	175	55.02	40.74	95.76			95.76
West side First.	Pennsylvania avenue and Maryland avenue southwest.	12	731	708.25	656.18	1,364.43			1,364.43
East side Fifth	B and C northeast.	4	290	100.93	23.56	124.49	243.22		148.43
West side Fifth	B and C northeast.	6	290	157.07	110.09	267.16			
Portner Place	Fourteenth and Fifteenth and U and V northwest.	6	389	271.93	68.75	340.68	228.26		112.42
West side Twenty-first.	Hillyer and R northwest	6	24	104.11	91.31	195.42	339.77	144.35	
West side Nineteenth	Q and R northwest	4	264						
North side O	Twentieth and Twenty-first northwest.	3	476	170.92	127.59	298.51	136.55		161.96
South side Georgia avenue	Ninth and Tenth southeast.	4	415	186.32	124.56	310.88	49.89	99.01	
Center M	Eleventh and Twelfth southeast	4	448	153.37	124.00	277.37	190.06		87.31
Virginia avenue	Eighth and Ninth southeast.	6	155	81.46	30.27	111.73	287.30	175.57	
Center L	Eighth and Ninth southeast.	3	303	80.09	52.38	132.47			
West side Ninth	L and Virginia avenue southeast.	6	268	217.76	132.00	349.76	180.94		301.29
Center Sixth.	K and L northeast.	6	82						
Center K	Sixth and Seventh northeast	6	433	279.96	84.42	364.38			
Center Third	N and O northwest	6	647	390.99	127.43	518.42	1,923.83	1,041.03	
Center Fifth.	C and D northeast	4	480	159.90	132.08	291.98	135.00		156.98
Center M	North Capitol and First northwest.	6	216	110.20	46.21	156.41	298.38	141.97	
South side G	Half and First southwest.	6	865	441.99	149.81	591.80	1,129.90	538.10	
In alley	Second and Third and Pennsylvania avenue and C southeast.	4	429	146.73	117.04	263.77	518.15	254.38	
South side C	First and Second southwest.	3	453	136.90	132.36	269.26			269.26
In alley	Four-and-a-half and Union and M and N southwest.	4	277	96.23	64.57	160.80	248.05	87.25	
West side Fourth	East Capitol and A southeast	3	238	75.13	90.55	165.68			165.68
South side L	Twenty-first and Twenty-second northwest	6	373	218.20	99.65	317.85	44.34		273.51
West side Vermont avenue	V and Boundary northwest	6	607	353.59	225.15	578.74	618.46	39.72	
Center Q	Twenty-ninth and Thirtieth northwest	6	181	137.16	87.60	224.82	78.01		146.81
In alley	Sixth and Seventh and E and G southeast.	6	252	136.26	89.62	225.88	430.26	204.38	
South side B	Third and Fourth southeast.	3	285	79.44	69.90	149.34	16.11		138.23
North side D	Fourth and Fifth southeast.	4	422	163.58	80.41	243.99	121.56		122.43
South side D	Fourth and Fifth southeast.	4	288	104.33	71.13	175.46	284.56	109.09	
In alley	Twenty-first and Twenty-second and K and L northwest.	4	289	105.69	71.17	176.86	318.13	141.27	
West side New Jersey avenue.	Third and Four-and-a-half and G and H southwest.	3	399	109.40	79.45	188.85	33.13		155.72
	B and C northwest	4	468				38.44		142.61
				95.97	85.08	181.05			261.04
				183.94	77.10	261.04			

In alley	3	Ninth and Tenth and D and E southwest	108.38	101.36	209.74	328.44	118.70
West side Sixth	4	Q and R northwest	182.02	118.36	300.94	346.21	45.83
North side M	4	Sixteenth and Seventeenth northwest	157.11	133.83	290.94	71.28	
North side G	4	Tenth and Eleventh northwest	130.47	136.03	266.50	80.99	
In alley	4	Third and Four-and-a-half and B and C southwest	41.55	51.69	93.24	61.78	
Center Pierce	3	First and New Jersey avenue northwest	306.48	147.06	453.54	981.51	530.97
Center Twenty-first	6	R and Boundary northwest	169.40	115.87	285.27	99.06	
North side G	4	Half and First southwest	128.95	79.16	208.11	518.15	310.04
North side K	4	Nineteenth and Twentieth northwest	162.92	96.35	259.27		
Patterson	4	M and North Capitol and First northeast	118.44	48.50	166.94	63.54	
Center D	6	Delaware avenue and First northeast	178.16	89.88	268.04	118.98	
Center G	6	Fourth and Fifth northeast	217.34	92.92	310.26	348.72	38.46
South side Massachusetts a	4	Eighteenth and Du Pont Circle	231.09	119.94	351.03	40.28	
North side South Carolina ave.	6	Twelfth and Thirteenth					
Center Twelfth	3	North to South side South Carolina ave. southeast.	117.75	64.99	182.74	98.13	
Nine-and-a-half	6	T and U northwest	12.40	11.60	24.00	22.25	
East side Eighteenth	3	Massachusetts avenue and N northwest	91.34	55.09	146.43	151.65	1.75
Center G	4	First and Delaware avenue northeast	268.45	111.15	379.60	1,065.77	5.22
North side Pennsylvania ave.	6	Tenth and Eleventh southeast	146.55	86.23	232.78	161.93	686.17
North and south side A	4	Eighth and Eleventh southeast	230.15	129.66	359.81	289.75	
Center Seventh	4	K and L northeast	295.45	86.58	382.03	601.45	219.42
Center C	6	Eighth and Tenth northeast	391.67	104.13	495.80	759.85	264.05
In alley	6	Eighth and Ninth, Maryland ave. and D northeast	81.19	61.50	142.69	223.42	80.73
In alley	3	Eighth and Ninth, E and G southeast	46.74	42.50	89.24	28.57	
South side O	3	Twentieth and Twenty-first northwest	173.12	85.60	258.72		
	4	Second and C southwest	21.35	12.87	34.12		
	6	Second and E southwest	22.22	12.88	35.10		
	6	New Jersey avenue and Franklin northwest	65.94	37.00	102.94		
	6	New Jersey avenue and Q northwest	9.58	56.50	65.08		
	6	New Jersey avenue and P northwest	29.84	9.50	39.34		
	6	New Jersey avenue and O northwest	31.05	29.17	60.22		
	6	Sixth and E southeast	6.22	8.70	14.92		
	6	Seventh and C southeast	15.75	17.42	33.17		
	6	Third and H southwest	90.99	71.00	161.99		
	6	North Capitol and E	21.34	24.00	45.34		
	4	First and F northeast	17.19	10.93	28.12		
	6	F and G, North Capitol and First northeast	31.95	16.08	48.03		
	6	Second and F northeast	58.27	31.85	90.12		
	6	Tenth and Grant northwest	20.13	29.50	49.63		
	6	New Jersey avenue and Virginia avenue southeast.	17.94	7.50	25.44		
	6	Thirteenth and Fourteenth northwest	19.98	11.50	31.44		
	6	Fourteenth and Fifteenth northwest	38.76	15.00	53.76		
	6	Sixteenth and V northwest	145.71	76.12	221.83		
	6	Third and Four-and-a-half, B and C southwest	12.47	9.50	21.97		
	3	Fourteenth and Vermont avenue northwest	18.40	6.50	24.90		
	3	Fifteenth and Rhode Island avenue northwest	33.46	6.37	39.83		
	6	Seventh and H northeast	43.37	12.00	55.37		
	6	Sixth and B northeast	24.41	19.00	43.41		
G	6						
K	6						
Willow Tree alley	6						

REVENUES.

The following is the schedule under which water rents have been collected during the current fiscal year, with the single exception that the meter rate has been reduced to 3 cents per thousand gallons:

SCHEDULE OF WATER RENTS.

OFFICE OF THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA,
Washington, March 29, 1887.

AN ACT to confer upon the Commissioners of the District of Columbia certain powers, duties, and limitations contained in chapter eight (water service) of the Revised Statutes of the United States relating to the District of Columbia, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Commissioners of the District of Columbia shall have all the powers and be subject to all the duties and limitations provided in chapter eight of the Revised Statutes of the United States relating to the District of Columbia, excepting such powers and duties as belong to the Chief of Engineers: *Provided*, That water-main taxes and water rents shall be uniform in said District: *And provided further*, That the rate of interest specified in section two hundred and two of said Revised Statutes shall be increased to ten per centum per annum from and after the passage of this act.

* * * * *

Approved June 10, 1879.

Ordered, That under the authority invested in the Commissioners of the District of Columbia by the above-recited act, the following schedule of annual water rents is adopted, to take effect on the first of July, 1887, and will continue in force until otherwise ordered:

Domestic rates.

The rates for domestic purposes will be charged according to stories and front feet.

On all tenements two stories high, with a front width of 16 feet or less, \$3.50 per annum.

For each additional front foot, or fraction thereof, 25 cents.

For each additional story, or part thereof, one-third of the charges as computed above.

Special business and miscellaneous rates.

In every case where dwelling-houses or tenements are occupied also for business purposes, the regular charge for domestic purposes according to the above rates will be made, and in addition thereto, the special business rate, as hereinafter specified.

Special and miscellaneous business will be charged at the following rates, viz:

Bakeries, from \$3 to \$30 dollars per annum.

Barber-shops, first chair, \$3; each additional chair, \$1.50 per annum.

Bar-rooms and restaurants, from \$15 to \$50 per annum.

Billiard-rooms, from \$5 to \$20 per annum.

Boarding and tenement houses will be charged at a rate in accordance with the stories and front feet, and in addition thereto 50 cents per annum for each and every room over and above the number of three rooms in said boarding-house or tenement.

Boarding-schools and school-houses, from \$5 to \$10 per annum.

Brick-yards, \$10 to \$50 each per annum, according to production. Machinery and horse-power extra, at regular rates.

Building purposes: For each one thousand bricks laid, 3 cents per thousand. Special rates will be charged for public works.

Clubs and club-rooms according to fixtures.

Depots: Locomotive engines taking water once per day, \$75; twice per day, \$150. The building extra, according to number of offices, bars, and refreshment rooms; water-closets and urinals, \$3 each.

Dye-houses, \$5 to \$30 per annum. Machinery taking water, extra.

Eating-houses, from \$8 to \$20 per annum.

Fountains will only be used three hours per day, and will be charged as follows: One-sixteenth of an inch jet, \$5 per annum; for a one-eighth of an inch jet, \$10 per annum; for a one-quarter of an inch jet, \$20 per annum; for a one-half inch jet, \$50 per annum; for a three-quarter of an inch jet, \$75 per annum, and for an inch jet, \$150 per annum.

In case a meter is used, there will be charged one-half cent for each and every 100 gallons. No fountain will be permitted on any premises where the water is not taken for other purposes, and to an extent sufficient for those purposes; and if the water from the jet or fountain be permitted to flow into premises adjacent to or in the

neighborhood, where it may be used for other purposes, the supply will be stopped and the amount of payment forfeited.

Florists will be charged at the rate of from \$5 to \$20 per annum, according to the size of the premises.

Horses, private: For each and every horse, \$1.50; said sum to include water for washing carriages.

Hotels, \$1 for each bed or furnished room; bar, billiard-rooms, barber-shops, offices, stores, and machinery taking water, extra.

Laundries, \$25 to \$30, according to general business.

Machinery using water, according to the rates for stationary engines and boilers.

Mills, \$5; machinery extra, according to the rates for stationary engines.

Market-houses, 50 cents per stall.

Offices, \$3 per annum.

Printing-houses, from \$5 to \$10 per annum, according to the number of presses. Machinery in same using water will be charged in addition thereto, according to the rate for stationary engines.

Photograph galleries, \$10 to \$20.

Public baths, \$4 per annum for each and every tub.

Stables: All stables for animals for livery, hack, express, cab, street-car, draught, sale, dairy, or other purposes, will be charged for water at the rate of 75 cents per stall.

Stationary engines, \$3 per horse-power. Boilers without engines, \$1.75 per horse-power.

Stores, shops, confectioneries, warehouses, and mills, \$5 to \$10 per annum.

Steam-boats, according to tonnage; 50 tons and under, \$25; over 50 tons, \$50.

Street-washers, where parties use same, and water is not taken in the house, will be charged at rates from \$3 to \$10 per annum, according to nozzle or tap, and may be used not longer than thirty minutes immediately before sundown.

Slaughter-houses, from \$5 to \$20 per annum, according to general business. Machinery taking water, extra, according to rates for stationary engines.

Swimming-baths, manufactories, paper-mills, or any other business requiring a large supply of water, will be required to use a meter, and will be charged at the rate of 5 cents for each and every thousand gallons of water used.

All water required for purposes which are not specified in the foregoing tariff shall be paid for at such rate as may be fixed by the Commissioners.

WM. B. WEBB,
S. E. WHEATLEY,
C. W. RAYMOND,

Commissioners, District of Columbia.

A few slight inequalities have been developed in this year's application of the schedule, which, it is hoped, will be corrected before another year. A nearer approach to equity, in the rate for domestic use, could probably be effected by basing the schedule partly upon the number of water-fixtures employed, instead of entirely upon stories and front feet, as at present. It is now universally recognized, however, that strict equity in this respect can be attained only by resorting to the general use of meters.

From correspondence with the water departments of nearly forty American cities, each having a population of 50,000 souls or more, it appears that the water rates of the District of Columbia, except when meters are used, are decidedly lower than those of any large city in the country. The meter rate is as low as any other in the country, so far as is known to the water division.

The total collections for the year 1888 were \$215,149.26, and the refundments amounted to \$1,324.87. The water rents exceeded, and the water-main taxes fell below, the respective estimated receipts for the year.

HIGH-SERVICE.

The Washington high-service has been greatly improved by the erection at the U street station of new boilers and two new Gaskill horizontal compound engines, each with a daily capacity of two and one half million gallons. These engines and boilers were furnished by the

Holly Manufacturing Company, under contract. They were completed early in the current fiscal year; and, at the request of the Commissioners for an officer to perform that duty, the Secretary of the Navy detailed Passed Assistant Engineer George W. Baird, U. S. Navy, to make the tests provided for in the contract. Upon the report of this officer the engines and boilers, having been found to somewhat exceed the requirements of the contract, were accepted. Mr. Baird's full and interesting report also embraced many suggestions of decided value in securing the best results in working the plant in question.

Since the new engines were brought into regular service the pressures throughout the high-service area have been greater and more uniform than before, and complaints are no longer heard from that quarter, except in cases of accident to the pumps or mains.

It has been found necessary, in order to keep the engines running as smoothly as possible, to lay a 20-inch connection from the 20-inch main at Seventeenth and U streets to the U street station. This is now in progress, and will be completed in a few days.

On August 8, 1888, a heavy gale blew off part of the roof of the engine-room, boiler-room, and coal-vault at the U street station. The new roof will be finished by December 1, 1888.

The Georgetown pumping-station, which until this year was in a very dilapidated condition, has been put in good order. A new engine-room and coal-vault have been built, new fences erected, and the old pavement has been replaced. The old pumping-engine formerly in use at the U street station has been removed to the Georgetown station, and set up there, with two new boilers. As a result, the high-service in Georgetown is no longer dependent upon a single pump.

Owing to the proximity of neighboring buildings at higher elevations, the smoke-stack of the Georgetown station should be extended about 25 feet, by placing a metal pipe of suitable dimensions on the top of the stack as it now exists. This will improve the draught of the furnaces, which is somewhat defective.

With the new boilers and improved feed-water heaters in use at both stations, there is a marked falling off from last year in the quantity of coal consumed per million gallons of water pumped.

EXISTING MAINS.

The existing system of water mains is not adequately provided with division valves, air valves, and blow offs. An improvement in this respect should be effected with the least possible delay. The blow-offs now most needed are, one on the 20-inch main at the intersection of Maine avenue and Third street, and one on the 30-inch main at New Jersey avenue and D streets, northwest.

A cross connection between the 30-inch and 36-inch mains should be located at Seventeenth street, and should be provided with a blow-off. A division valve should be placed on each of these mains just west of the connecting line, and a third on that line. (See report of Capt. T. W. Symons of last year.)

A larger connecting main, not less than 12 inches in diameter, should be laid between the high-service systems of Georgetown and Washington. The only existing connection is over the P street bridge, and consists of a 6 inch main, which is entirely too small to perform adequate service in case of a break-down at either pumping station.

On cutting the 30-inch main at Fourteenth and K streets during the present fall, its interior surface was found to be rather foul. This is hardly a subject for wonder, since the pipe has been in use for twenty-nine years. It will be possible, after the increased supply is available,

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to open this main at different points, to clean it, and give it a thorough recoating on the inside. Its original discharging capacity can thus be restored, and its life materially prolonged, at slight expense. I believe, in fact, that all large mains should be provided, at the time they are laid, with suitable man-holes, through which they may be examined at intervals, and, when necessary, cleaned and recoated, or otherwise repaired.

I submit herewith a map showing the location to date of all water-mains, fire hydrants, and stop-valves.

BREAKS IN MAINS.

A serious break occurred in a section of the 36-inch main at the crossing of Foundry Branch, at about 2.40 a.m., June 29, 1888.

This break, which was at a very inconvenient point for working, and a crack found 50 feet to the eastward, were repaired in about thirty-two hours.

The escaping water had so torn up the ground near the main that it was difficult to determine the exact cause of the break. There were present, however, some indications that wooden wedges had been used to block up the pipe, over an uneven and rocky bed, and that the decay of the wood had brought a heavy bending strain upon the section which gave way.

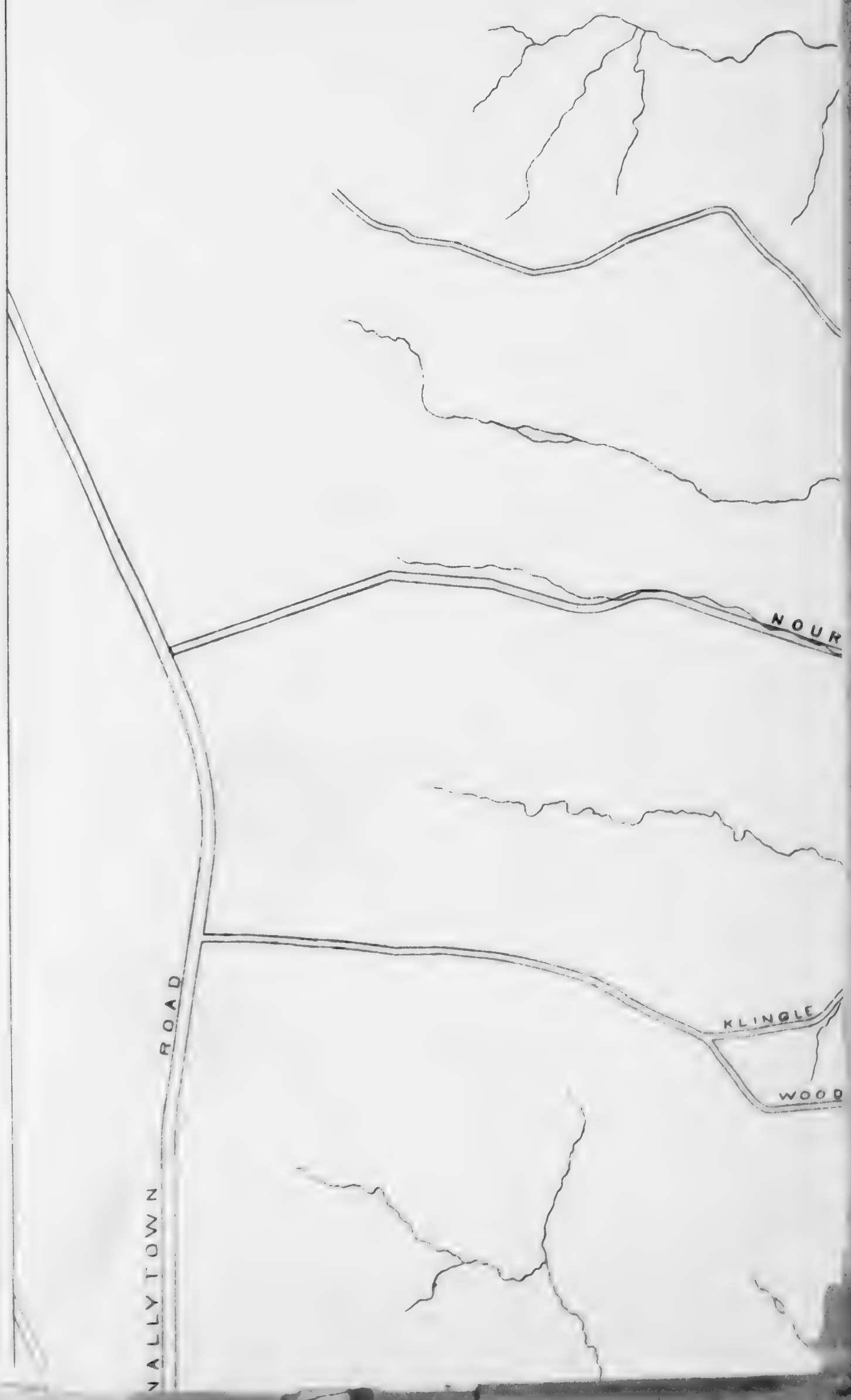
EXTENSION OF DISTRIBUTION SYSTEM.

The completion of the main now under construction from Fourteenth and K streets, northwest, to Tenth and B streets, southwest, will materially assist in giving a more equitable distribution of water.

After the increased supply becomes available, several new 20-inch mains should be laid as rapidly as funds will permit. Two of these should extend eastward from the 48-inch and 30-inch mains on New Jersey avenue, as far as Eighth street, one following Boundary street, the other H street. The latter should be laid first, in order to relieve the drain on the 20-inch main on B street northeast. A third 20-inch main should extend from Boundary street southward on Eighth street (east) to Pennsylvania avenue and D streets, southeast. A fourth should be laid westward from the 48-inch main along Q street to Seventeenth street, and possibly to Boundary street; and a fifth from the 20-inch main at Fourteenth street and Ohio avenue, westward along Ohio avenue, E street, and Virginia avenue, and northward on Twenty-fifth street, to a connection with the 36-inch main at Pennsylvania avenue. In the aggregate these mains, with the 30-inch main from the Champlain avenue shaft to Seventeenth and U streets, proposed last year, will cost a large sum, but they will be needed to preserve the pressures to all parts of the city, by keeping the losses of head due to friction as low as practicable, and to reduce to a minimum the danger and inconvenience arising from a possible break in any one main. The existing trunk mains and those proposed are shown on the accompanying map.

It would be advantageous to have some of these large mains finished by the time the new supply is turned on, but none of them are proposed for immediate construction, simply because the necessary funds are not in sight.

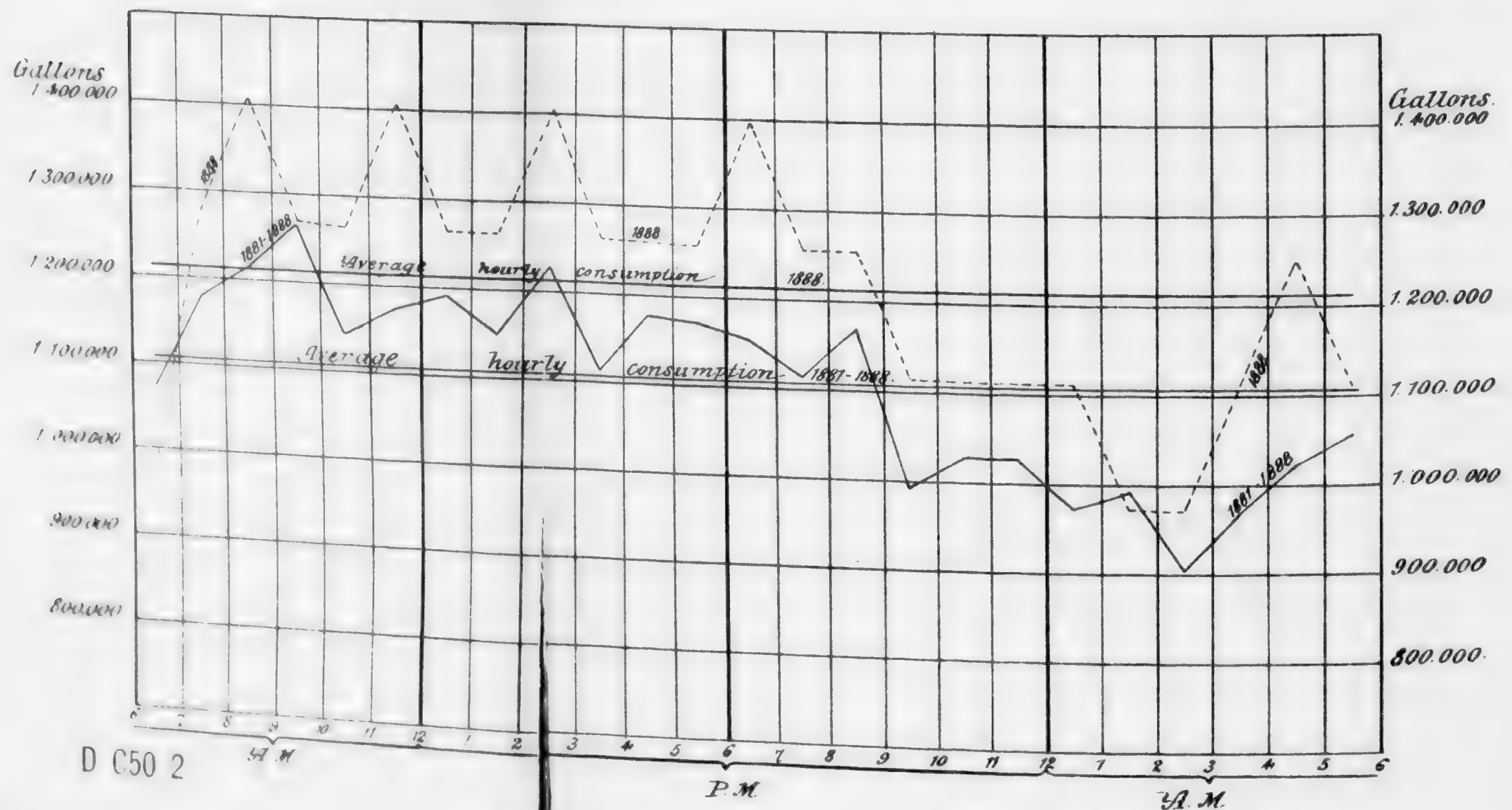
An imperative demand exists for a main to Anacostia. As a step in that direction, a 10-inch main has been laid from the 12-inch main at Virginia avenue and Eighth street, southeast, to the northern end of the Anacostia bridge. Its extension is not proposed at present, partly from the lack of necessary funds, and partly because the water is not to be spared. If possible, it should be laid so as to be available when the increased supply is turned on.





Curve showing variations
—in—
HOURLY CONSUMPTION
~ of ~
Potomac Water.

Mean observations taken in June of each year 1881-1888.



A main to Mount Pleasant, as well as some modifications and extensions of the Washington and Georgetown high-service systems, are also urgently required, but will likewise have to be deferred beyond next year, unless the water fund can be relieved of at least a part of the heavy annual charges against it for interest and sinking fund.

HOURLY CONSUMPTION OF POTOMAC WATER.

The following table, with its corresponding curves, is presented for comparison with that submitted by Captain Symons in last year's report.

TABLE D.—*Hourly consumption of Potomac water.*

[In gallons per hour.]

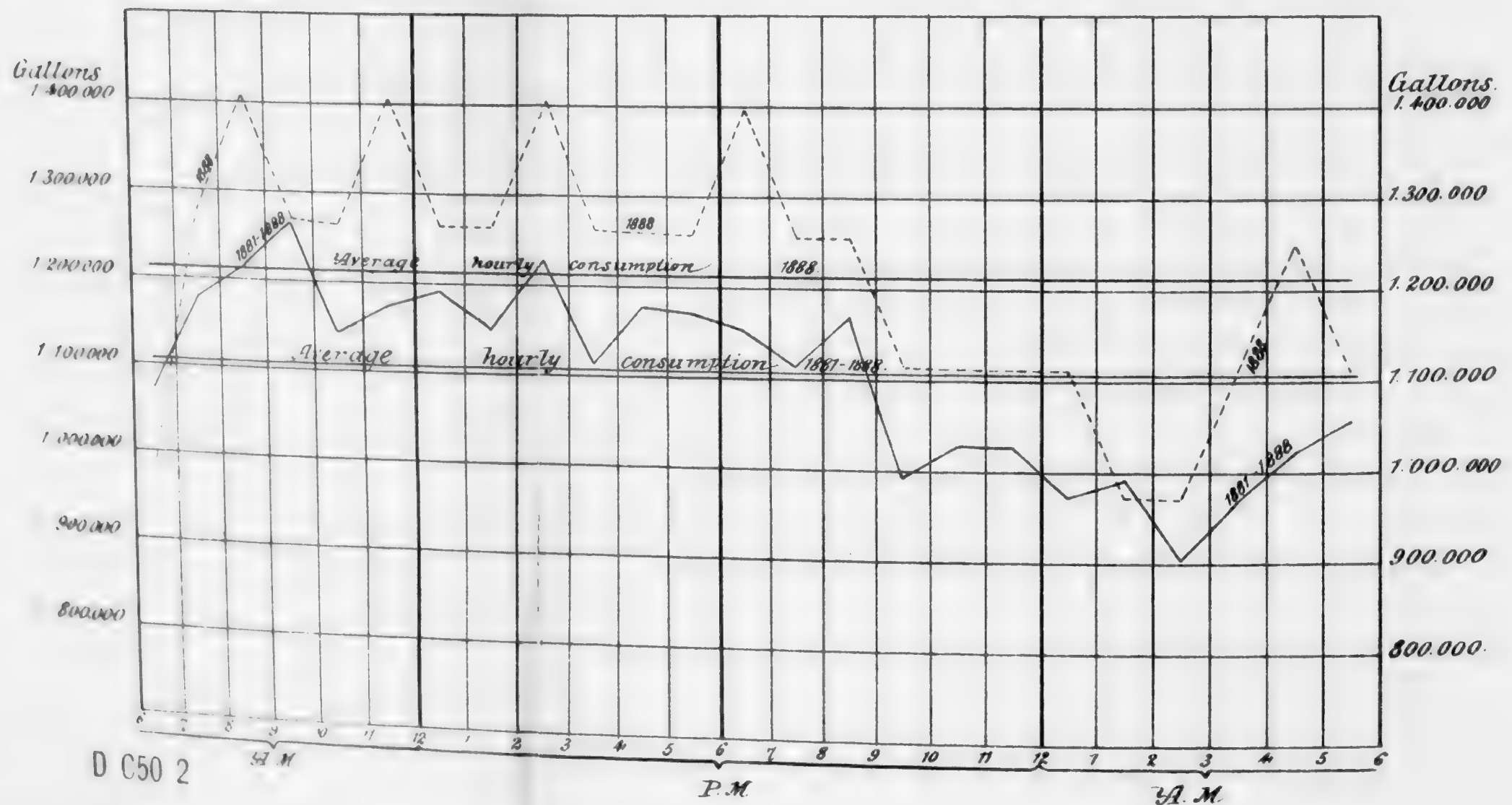
	June 27 and 28, 1881.	June 26 and 27, 1882.	June 26 and 27, 1883.	June 27 and 28, 1884.	June 26 and 27, 1885.
6 to 7 a. m.	1,124,438	1,267,216	1,128,889	988,675	982,633
7 to 8 a. m.	1,264,135	1,266,236	987,016	1,129,187	1,122,288
8 to 9 a. m.	1,263,230	1,415,776	1,127,184	987,403	1,261,612
9 to 10 a. m.	1,262,317	1,264,164	1,126,361	1,268,646	1,400,794
10 to 11 a. m.	1,121,297	1,263,185	1,125,471	1,126,861	839,891
11 to 12 m.	1,260,604	1,122,007	1,265,100	844,637	1,259,031
12 m. to 1 p. m.	1,119,771	1,401,422	983,101	1,406,759	978,564
1 to 2 p. m.	1,147,170	1,400,211	758,008	984,010	1,257,281
2 to 3 p. m.	1,118,604	1,259,153	1,290,537	1,264,283	1,256,301
3 to 4 p. m.	1,210,503	1,118,424	1,121,379	842,310	976,439
4 to 5 p. m.	1,117,886	1,257,305	1,176,402	1,261,657	1,115,211
5 to 6 p. m.	1,256,767	1,395,857	993,621	1,121,529	975,168
6 to 7 p. m.	1,116,360	1,255,233	978,960	1,130,802	1,113,759
7 to 8 p. m.	976,230	1,393,561	992,252	980,108	1,112,975
8 to 9 p. m.	1,256,590	1,253,169	1,145,143	979,514	1,112,203
9 to 10 p. m.	975,362	1,113,106	976,589	978,920	833,604
10 to 11 p. m.	835,583	1,251,314	1,115,575	978,327	972,034
11 to 12 midnight	974,337	1,111,460	1,114,557	977,733	971,435
12 midnight to 1 a. m.	973,791	1,110,682	835,344	977,139	832,193
1 to 2 a. m.	1,127,191	971,210	709,740	976,543	1,108,905
2 to 3 a. m.	972,617	1,109,231	723,309	836,566	831,175
3 to 4 a. m.	833,234	1,385,453	834,114	836,130	830,734
4 to 5 a. m.	1,110,346	1,107,488	972,654	835,694	968,637
5 to 6 a. m.	1,109,628	1,245,001	833,309	1,113,580	1,106,287
Total 24 hours.	26,525,991	29,727,864	24,314,715	24,827,013	25,219,194

	June 25 and 26, 1886.	June 24 and 25, 1887.	June 22 and 23, 1888.	Average per hour.
6 to 7 a. m.	989,826	1,128,854	988,384	1,074,864
7 to 8 a. m.	1,130,499	1,269,034	1,269,906	1,179,788
8 to 9 a. m.	1,129,728	1,127,206	1,409,856	1,213,999
9 to 10 a. m.	1,270,012	1,267,179	1,267,834	1,265,913
10 to 11 a. m.	1,228,082	1,266,198	1,266,852	1,142,230
11 to 12 m.	1,127,304	1,124,685	1,406,462	1,176,229
12 m. to 1 p. m.	1,126,526	1,264,344	1,264,780	1,193,158
1 to 2 p. m.	1,125,756	1,263,362	1,263,798	1,149,950
2 to 3 p. m.	1,124,978	1,122,164	1,403,069	1,229,886
3 to 4 p. m.	1,124,199	1,261,508	1,261,726	1,114,561
4 to 5 p. m.	1,123,422	1,120,516	1,260,744	1,179,143
5 to 6 p. m.	1,122,651	1,259,654	1,259,763	1,173,126
6 to 7 p. m.	1,121,873	1,118,868	1,398,585	1,154,305
7 to 8 p. m.	1,121,095	1,118,092	1,257,690	1,119,000
8 to 9 p. m.	1,120,325	1,256,927	1,256,709	1,172,323
9 to 10 p. m.	979,644	976,930	1,116,250	993,801
10 to 11 p. m.	979,053	976,337	1,115,475	1,027,962
11 to 12 midnight	978,455	975,743	1,114,699	1,027,302
12 midnight to 1 a. m.	977,863	975,149	1,113,923	974,511
1 to 2 a. m.	977,272	1,113,729	974,047	994,830
2 to 3 a. m.	837,190	973,877	973,453	907,177
3 to 4 a. m.	976,165	973,282	1,111,790	972,613
4 to 5 a. m.	975,575	972,689	1,249,837	1,024,115
5 to 6 a. m.	974,983	972,095	1,110,142	1,058,128
Total 24 hours.	25,542,476	26,878,424	29,115,774	26,518,914

To the plat I have added a line showing the variations in hourly consumption on June 22-23 of this year. On that day 29,115,774 gallons

Curve showing variations
—in—
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~ of ~
Potomac Water.

Mean observations taken in June of each year 1881-1888.



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[In gallons per hour.]

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6 to 7 a. m.	1, 124, 438	1, 267, 216	1, 128, 889	988, 675	982, 633
7 to 8 a. m.	1, 264, 135	1, 266, 236	987, 016	1, 129, 187	1, 122, 288
8 to 9 a. m.	1, 263, 230	1, 415, 776	1, 127, 184	987, 403	1, 261, 612
9 to 10 a. m.	1, 262, 317	1, 264, 164	1, 126, 361	1, 268, 646	1, 400, 794
10 to 11 a. m.	1, 121, 297	1, 263, 185	1, 125, 471	1, 126, 861	839, 891
11 to 12 m.	1, 260, 604	1, 122, 007	1, 265, 100	844, 637	1, 259, 031
12 m. to 1 p. m.	1, 119, 771	1, 401, 422	983, 101	1, 406, 759	978, 564
1 to 2 p. m.	1, 147, 170	1, 400, 211	758, 008	984, 010	1, 257, 281
2 to 3 p. m.	1, 118, 604	1, 259, 153	1, 290, 537	1, 264, 283	1, 256, 301
3 to 4 p. m.	1, 210, 503	1, 118, 424	1, 121, 379	842, 310	976, 439
4 to 5 p. m.	1, 117, 886	1, 257, 305	1, 176, 402	1, 261, 657	1, 115, 211
5 to 6 p. m.	1, 256, 767	1, 395, 857	993, 621	1, 121, 529	975, 168
6 to 7 p. m.	1, 116, 360	1, 255, 233	978, 960	1, 130, 802	1, 113, 759
7 to 8 p. m.	976, 230	1, 393, 561	992, 252	980, 108	1, 112, 975
8 to 9 p. m.	1, 256, 590	1, 253, 169	1, 145, 143	979, 514	1, 112, 203
9 to 10 p. m.	975, 362	1, 113, 106	976, 589	978, 920	833, 604
10 to 11 p. m.	835, 583	1, 251, 314	1, 115, 575	978, 327	972, 034
11 to 12 midnight	974, 337	1, 111, 460	1, 114, 557	977, 733	971, 435
12 midnight to 1 a. m.	973, 791	1, 110, 682	835, 344	977, 139	832, 193
1 to 2 a. m.	1, 127, 191	971, 210	709, 740	976, 543	1, 108, 905
2 to 3 a. m.	972, 617	1, 109, 231	723, 309	836, 566	831, 175
3 to 4 a. m.	833, 234	1, 385, 453	834, 114	836, 130	830, 734
4 to 5 a. m.	1, 110, 346	1, 107, 488	972, 654	835, 694	968, 637
5 to 6 a. m.	1, 109, 628	1, 245, 001	833, 309	1, 113, 580	1, 106, 287
Total 24 hours	26, 525, 991	29, 727, 864	24, 314, 715	24, 827, 013	25, 219, 194

	June 25 and 26, 1886.	June 24 and 25, 1887.	June 22 and 23, 1888.	Average per hour.
6 to 7 a. m.	989, 826	1, 128, 854	988, 384	1, 074, 864
7 to 8 a. m.	1, 130, 499	1, 269, 034	1, 269, 906	1, 179, 788
8 to 9 a. m.	1, 129, 728	1, 127, 206	1, 409, 856	1, 213, 999
9 to 10 a. m.	1, 270, 012	1, 267, 179	1, 267, 834	1, 265, 913
10 to 11 a. m.	1, 228, 082	1, 266, 198	1, 266, 852	1, 142, 230
11 to 12 m.	1, 127, 304	1, 124, 685	1, 406, 462	1, 176, 229
12 m. to 1 p. m.	1, 126, 526	1, 264, 344	1, 264, 780	1, 193, 158
1 to 2 p. m.	1, 125, 756	1, 263, 362	1, 263, 798	1, 149, 950
2 to 3 p. m.	1, 124, 978	1, 122, 164	1, 403, 069	1, 229, 886
3 to 4 p. m.	1, 124, 199	1, 261, 508	1, 261, 726	1, 114, 561
4 to 5 p. m.	1, 123, 422	1, 120, 516	1, 260, 744	1, 179, 143
5 to 6 p. m.	1, 122, 651	1, 259, 654	1, 259, 763	1, 173, 126
6 to 7 p. m.	1, 121, 873	1, 118, 868	1, 398, 585	1, 154, 305
7 to 8 p. m.	1, 121, 095	1, 118, 092	1, 257, 690	1, 119, 000
8 to 9 p. m.	1, 120, 325	1, 256, 927	1, 256, 709	1, 172, 323
9 to 10 p. m.	979, 644	976, 930	1, 116, 250	993, 801
10 to 11 p. m.	979, 053	976, 337	1, 115, 475	1, 027, 962
11 to 12 midnight	978, 455	975, 743	1, 114, 699	1, 027, 302
12 midnight to 1 a. m.	977, 863	975, 149	1, 113, 923	974, 511
1 to 2 a. m.	977, 272	1, 113, 729	974, 017	994, 830
2 to 3 a. m.	837, 190	973, 877	973, 453	907, 177
3 to 4 a. m.	976, 165	973, 282	1, 111, 790	972, 613
4 to 5 a. m.	975, 575	972, 689	1, 249, 837	1, 024, 115
5 to 6 a. m.	974, 983	972, 095	1, 110, 142	1, 058, 128
Total 24 hours	25, 542, 476	26, 878, 424	29, 115, 774	26, 518, 914

To the plat I have added a line showing the variations in hourly consumption on June 22-23 of this year. On that day 29,115,774 gallons

were drawn from the distributing reservoir, or about 146 gallons per capita, of an assumed population of 200,000.

The average daily consumption for the eight years (1881-1888) is 26,518,914 gallons, or something less than 133 gallons per capita.

The lowest average hourly consumption for the eight years falls between 2 and 3 a. m., when it is 907,177 gallons, or at the rate of 82 per cent. of the mean and 72 per cent. of the maximum hourly consumption.

The lowest hourly consumption for 1888 likewise falls between 2 and 3 a. m., when it is 973,453 gallons, or at the rate of 80 per cent. of the mean and 69 per cent. of the maximum. Waste so enormous as these figures indicate can be due only to a combination of the causes discussed elsewhere in this report.

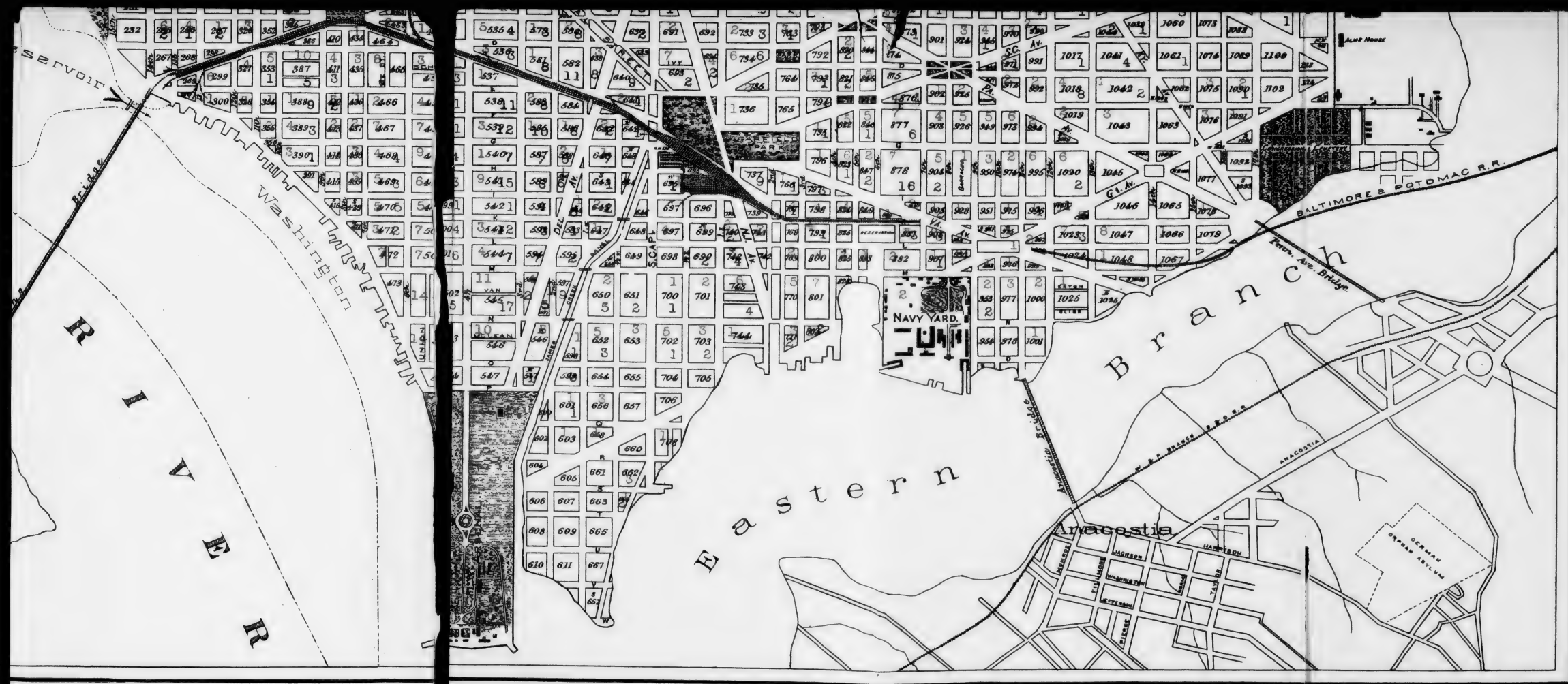
As stated in that discussion, the water division can not, for lack of jurisdiction, deal with this question of waste as its importance deserves. As far as lies in its power, the misuse of water is kept down to the lowest attainable limit.

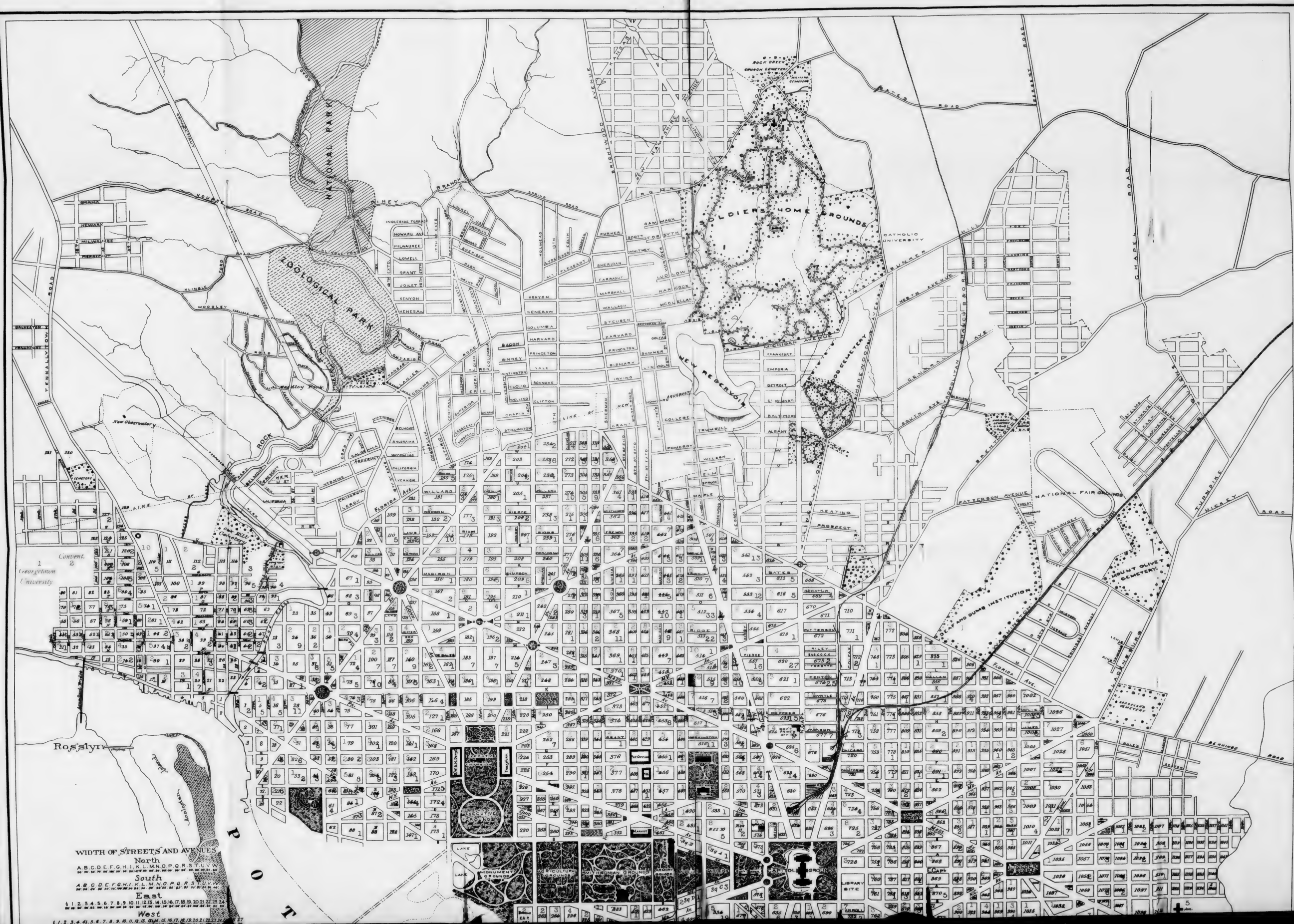
The following table and plat, showing losses of head along the principal supply mains, are presented for comparison with those of last year, as well as for preservation in convenient form for future reference:

TABLE E.—*Pressures and losses of head along lines of principal supply mains.*

[Date, November 23, 1888. Lengths to plugs are from distributing reservoir.]

Location.	Size of main.	Length to plug.	Elevation.	Hydraulic head.	Day.		Night.		
					Pressure.		Lost head.	Pressure.	Lost head.
					Lbs	Feet.		Lbs	Feet.
Northwest cor. 36th and M, NW.....	(12) (36) (30)	5,980	54.6	91.4	27	62.37	29.03	28	64.68
Southwest cor. 34th and M, NW.....	(12) (36) (30)	6,756	78.5	67.5	16	36.96	30.54	18	41.58
Southeast cor. Potomac and M, NW....	(12) (36) (30)	7,490	68.1	77.9	20	46.20	31.70	21	48.51
North side M bet. 32d and Market, NW.	(12) (36) (30)	7,900	69.1	76.9	19½	45.04	31.85	21	48.51
In front engine-house, M bet. 32d and 33d, NW.....	12		69.1	76.9	20	46.20	30.70	21	48.51
Southeast cor. 32d and M, NW.....	12	8,320	71.1	74.9	21½	49.66	25.24	22½	51.97
Southeast cor. 31st and M, NW.....	12	8,640	57.9	88.1	27	62.37	25.73	28	64.68
Southeast cor. Jefferson and M, NW.....	12	9,060	52.0	94.0	30	69.30	24.70	31½	72.76
Southeast cor. 30th and M, NW.....	12	9,320	46.1	99.9	32½	75.07	24.83	33	76.23
Northwest cor. 29th and M, NW.....	12	9,620	42.5	103.5	33	76.23	27.27	34½	79.69
Northwest cor. 26th and Pa. ave., NW.....	12	10,540	50.1	95.9	30	69.30	26.60	32½	75.07
Southwest cor. 25th and Pa. ave., NW.....	12	11,150	61.3	84.7	23	53.13	31.57	26	60.06
Northeast cor. 24th and L, NW.....	36	11,750	64.8	81.2	24	55.44	25.76	26	60.06
Northeast cor. 23d and L, NW.....	36	12,100	59.9	86.1	26	60.06	26.04	28	64.68
New Hampshire ave. and L, NW.....	36	12,500	53.7	92.3	23	53.13	39.17	30½	70.45
Northwest cor. 21st and L, NW.....	36	12,859	50.7	95.3	29	66.99	28.31	32½	75.07
Northeast cor. 20th and L, NW.....	36	13,540	48.7	97.3	30	69.30	28.00	32	73.92
Northwest cor. Conn. ave. and L, NW.....	36	14,900	53.1	92.9	26	60.06	32.84	29	66.99
Northwest cor. 17th and L, NW.....	36	15,350	51.0	95.0	26	60.06	34.94	30	69.30
Northeast cor. 16th and L, NW.....	36	15,950	52.6	93.4	26½	61.21	32.19	28½	65.83
Northwest cor. 15th and L, NW.....	36	16,320	53.8	92.2	23	53.13	39.07	25½	58.90
Northwest cor. Vt. ave. and L, NW.....	36	16,780	68.9	77.1	20½	47.35	29.75	22½	51.97
Northwest cor. 14th and L, NW.....	36	17,080	69.5	76.5	19½	45.04	31.46	22	50.82
Northwest cor. 13th and L, NW.....	36	17,740	84.3	61.7	12½	28.87	32.83	15	34.65
Northwest cor. 12th and L, NW.....	36	18,200	85.7	59.3	12	27.72	31.58	14½	37.49
Northeast cor. 11th and L, NW.....	36	18,700	83.2	62.8	13	30.03	32.77	15	34.65
Northwest cor. 10th and L, NW.....	36	18,800	78.3	67.7	15	34.65	33.05	18	41.58
Northwest cor. 9th and L, NW.....	36	19,380	76.8	69.2	16	36.96	32.24	19	43.89
Northeast cor. 8th and L, NW.....	36	19,840	75.0	71.0	16½	38.11	32.89	18½	42.73
Northwest cor. 6th and L, NW.....	36	20,520	67.5	78.5	18	41.58	36.92	22½	51.97
Northeast cor. 5th and L, NW.....	36	20,980	62.9	83.1	19½	45.04	38.06	23	53.13
Northeast cor. 4th and L, NW.....	36	21,760	53.9	92.1	25	57.75	34.35	26½	61.21
Northeast cor. 3d and L, NW.....	36	31,900	51.6	94.4	25	57.75	36.65	27½	63.52
Northeast cor. N. J. ave. and L, NW.....	30	22,400	48.8	97.2	25	57.75	39.45	28½	65.83
Southeast cor. 18th and Pa. ave., NW.....	12	14,820	61.2	84.8	13	30.03	54.77	16½	38.11
Northwest cor. 15½ and Pa. ave., NW.....	12	16,700	52.2	93.8	10	23.10	70.70	14	32.34
West side 15th bet. F and G, near G. NW.....	12	17,200	46.2	99.8	11½	26.56	73.24	16	36.96





WIDTH OF STREETS AND AVENUES

North
A B C D E F G H I K L M N O P Q R S T U V W
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

South
A B C D E F G H I K L M N O P Q R S T U V W
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

East
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

West
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24







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MAP
OF THE
CITY OF WASHINGTON

1888.

Existing Trunk Mains are shown thus ———
Proposed extension of " ———
Mains to be constructed by U.S. Govt during fiscal year 1889 ———











WIDTH OF STREETS AND AVENUES

North

A B C D E F G H I K L M N O P Q R S T U V W

South

A B C D E F G H I K L M N O P Q R S T U V W

East

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

West

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

North & South Capitol East Capitol Boundary to Water 60 ft. 60

Avenues

100 New Jersey

100 North Carolina

100 New Hampshire

100 Ohio

100 Pennsylvania East of 15th St.

100 Pennsylvania West of 15th St.

100 Rhode Island

100 North Carolina

100 Tennessee

100 Vermont

100 New York East of 15th St.

100 New York West of 15th St.

100 Virginia West of 15th St.

100 Virginia East of 15th St.

100 Virginia West of 15th St.

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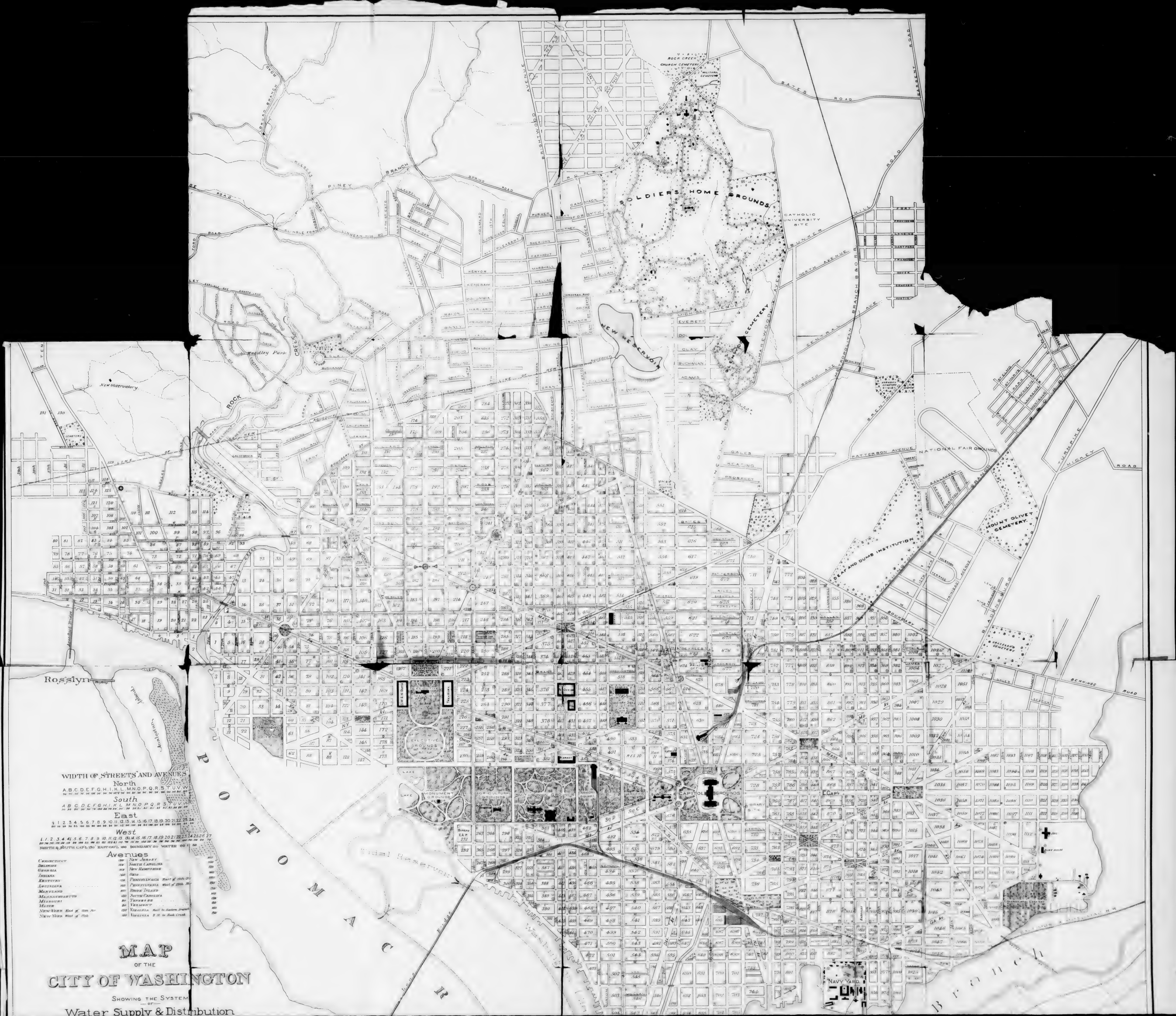
100 Virginia West of 15th St.

100 Virginia East of 15th St.

100 Virginia West of 15th St.

100 Virginia East of 15th St.

100 Virginia West of 15th St.



WIDTH OF STREETS AND AVENUES

North
A B C D E F G H I K L M N O P Q R S T U V W

South
A B C D E F G H I K L M N O P Q R S T U V W

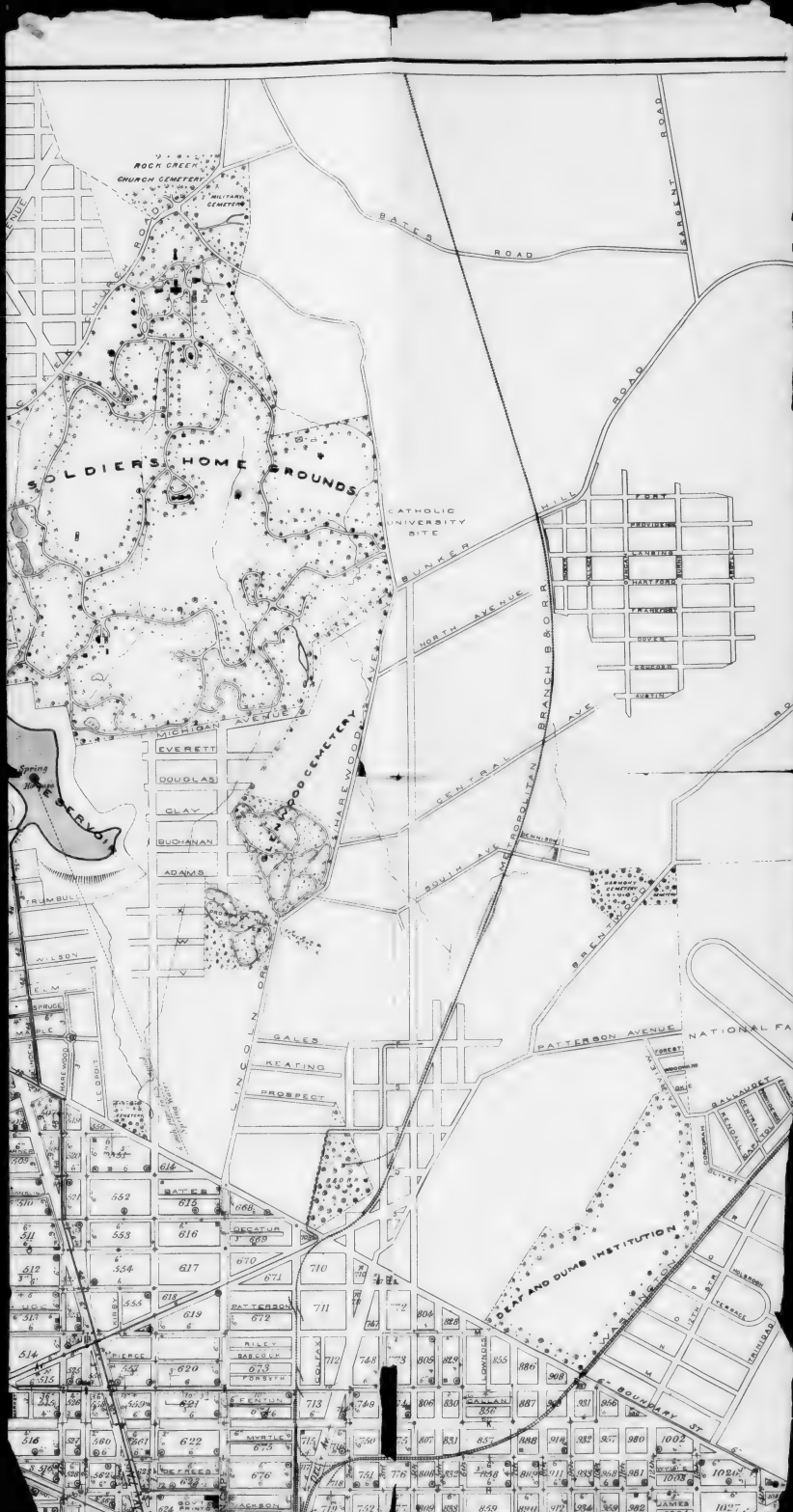
East
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

West
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Avenues
New Jersey
New York
New Hampshire
Ohio
Pennsylvania
Maryland
Massachusetts
Michigan
Minnesota
Missouri
Montana
Nebraska
Nevada
New Mexico
New York
North Carolina
North Dakota
Ohio
Oregon
Pennsylvania
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Virginia
Washington
West Virginia
Wisconsin
Wyoming

MAP
OF THE
CITY OF WASHINGTON
SHOWING THE SYSTEM
OF
Water Supply & Distribution





WIDTH OF STREETS AND AVENUES

North
A. B. C. D. E. F. G. H. I. K. L. M. N. O. P. Q. R. S. T. U. V. W
50' 50' 50' 50' 70' 50' 100' 50' 50' 50' 107' 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' 50'

South
A. B. C. D. E. F. G. H. I. K. L. M. N. O. P. Q. R. S. T. U. V. W
50' 50'

East
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.
50' 50'

West
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27.
50' 50'

NORTH & SOUTH CAP L 150' EAST CAP L 160' BOUNDARY 80 WATER 60 & 80

Avenues

| | | | |
|---------------------------|------|---------------------------------|------|
| CONNECTICUT | 150' | NEW JERSEY | 160' |
| DELAWARE | 160' | NORTH CAROLINA | 160' |
| GEORGIA | 160' | NEW HAMPSHIRE | 120' |
| INDIANA | 160' | OHIO | 160' |
| KENTUCKY | 120' | PENNSYLVANIA East of 15th St. | 160' |
| LOUISIANA | 160' | PENNSYLVANIA West of 17th St. | 150' |
| MARYLAND | 160' | RHODE ISLAND | 150' |
| MASSACHUSETTS | 160' | SOUTH CAROLINA | 160' |
| MISSOURI | 80' | TENNESSEE | 120' |
| MAINE | 80' | VERMONT | 120' |
| NEW YORK East of 15th St. | 130' | VIRGINIA Mall to Eastern Branch | 160' |
| NEW YORK West of 17th | 160' | VIRGINIA B St to Rook Creek | 150' |

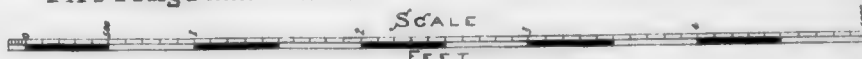
OF THE

SHOWING THE SYSTEM

To accompany the annual report

Corps of Engr's U.S.A

| | | | | |
|----------------------|-------|----------|-------------------------------------|-------|
| Water Mains | above | 6 inches | are represented by heavy lines thus | ————— |
| Smaller | ..... | ..... | fine | ..... |
| Ornamental Fountains | ..... | ..... |  | ● |
| Drinking & Horse | ..... | ..... |  | △ |
| Public Pumps | ..... | ..... |  | ■ |
| Public Hydrants | ..... | ..... |  | + |
| Stop Valves | ..... | ..... |  | • |
| Fire Plugs | ..... | ..... |  | ⊕ |





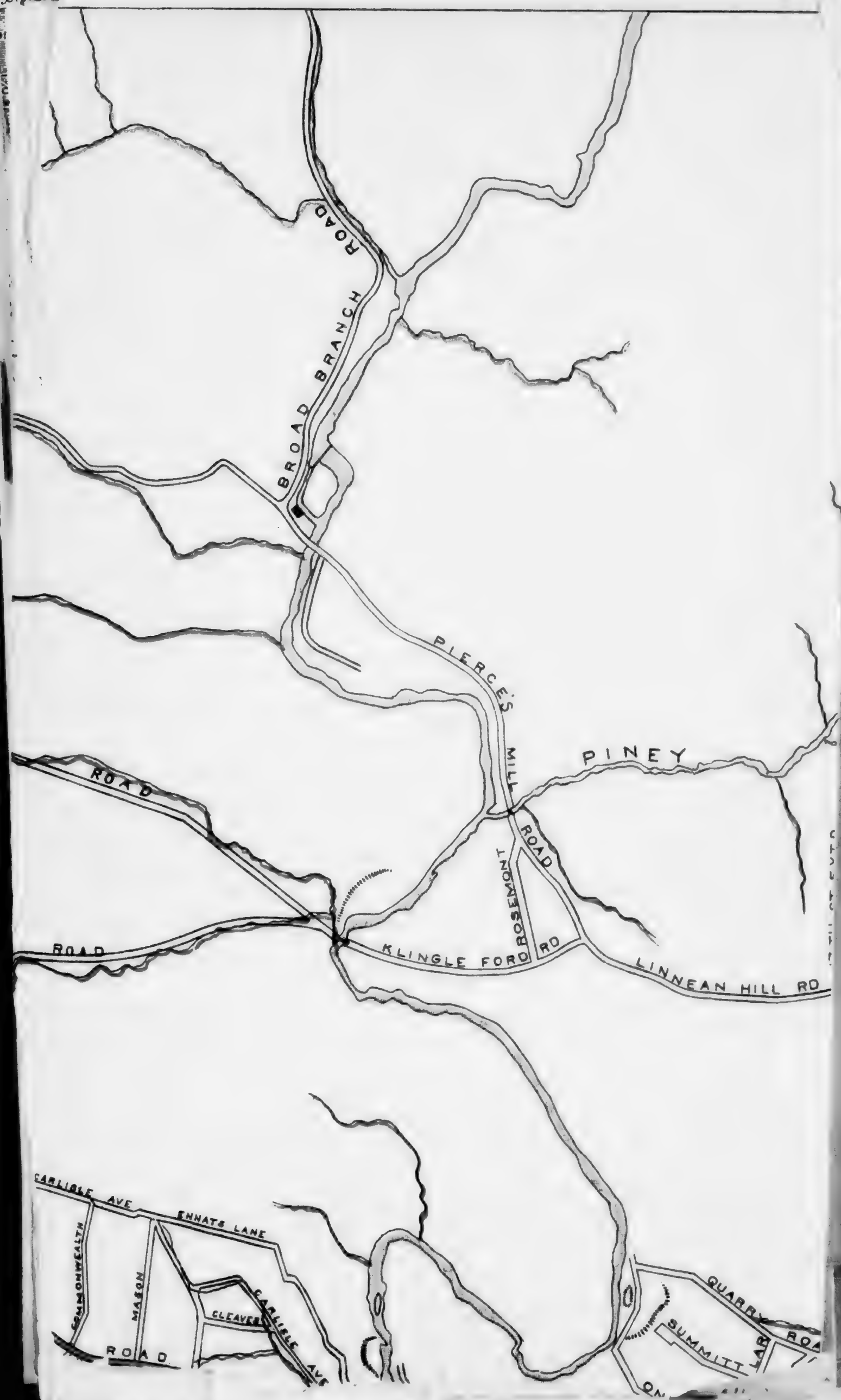


TABLE E.—Pressures and losses of head along lines of principal supply mains—Cont'd.

| Location. | Size of main. | Length to plug. | Elevation. | Hydraulic head. | Day. | | Night. | | | |
|--|---------------|-----------------|------------|-----------------|-----------|-------|------------|-----------|-------|------------|
| | | | | | Pressure. | | Lost head. | Pressure. | | Lost head. |
| | | | | | Lbs | Feet. | | Lbs | Feet. | |
| West side 15th bet. F and G, near F, NW | 12 | 17,410 | 34.6 | 111.4 | 11 | 25.41 | 85.99 | 15 | 34.65 | 76.79 |
| Southeast cor. 15th and Pa. ave., NW | 12 | 17,920 | 27.3 | 118.7 | 15 | 34.65 | 84.05 | 19½ | 45.04 | 73.66 |
| South side Pa. ave. bet. 14th and 15th, NW | 12 | 18,050 | 23.4 | 122.6 | 18 | 41.58 | 81.02 | 22½ | 51.97 | 70.63 |
| South side Pa. ave. bet. 13th and 13½, NW | 12 | 18,900 | 12.8 | 133.2 | 20 | 46.20 | 87.00 | 24 | 55.44 | 77.76 |
| Southeast cor. 13th and Pa. ave., NW | 12 | 19,140 | 12.1 | 133.2 | 20 | 46.20 | 87.00 | 25 | 57.75 | 75.45 |
| South side Pa. ave. bet. 12th and 13th, NW | 12 | 19,300 | 13.7 | 132.3 | 20 | 46.20 | 86.10 | 25 | 57.75 | 74.55 |
| Northwest cor. 12th and D, NW | 12 | 19,480 | 12.7 | 133.3 | 20 | 46.20 | 87.10 | 25 | 57.75 | 75.55 |
| Northwest cor. 11th and Pa. ave., NW | 12 | 19,700 | 13.6 | 132.4 | 20 | 46.20 | 86.20 | 25 | 57.75 | 74.65 |
| Southwest cor. 10th and Pa. ave., NW | 12 | 20,120 | 12.8 | 133.2 | 20 | 46.20 | 87.00 | 25 | 57.75 | 75.45 |
| Northeast cor. 10th and Pa. ave., NW | 12 | 20,200 | 12.8 | 133.2 | 20 | 46.20 | 87.00 | 25 | 57.75 | 75.45 |
| South side Pa. ave. bet. 9th and 10th, NW | 12 | 20,500 | 12.7 | 133.3 | 20 | 46.20 | 87.10 | 25 | 57.75 | 75.55 |
| Northwest cor. 9th and Pa. ave., NW | 12 | 20,650 | 12.7 | 133.3 | 20 | 46.20 | 87.10 | 25 | 57.75 | 75.55 |
| Southeast cor. 8th and C, NW | 12 | 21,160 | 13.0 | 133.0 | 18½ | 42.73 | 90.27 | 25 | 57.75 | 75.25 |
| Southwest cor. 7th and Pa. ave., NW | 12 | 21,400 | 11.4 | 134.6 | 20 | 46.20 | 88.40 | 25 | 57.75 | 76.85 |
| South side Pa. ave. bet. 6th and 7th, NW | 12 | 21,700 | 11.1 | 134.9 | 18½ | 42.73 | 92.17 | 25 | 57.75 | 77.15 |
| Northeast cor. 6th and Pa. ave., NW | 12 | 22,100 | 10.8 | 135.2 | 20 | 46.20 | 89.00 | 25 | 57.75 | 77.45 |
| South side Pa. ave. bet. 4½ and C, NW | 12 | 22,410 | 11.3 | 134.7 | 20 | 46.20 | 88.50 | 25 | 57.75 | 76.95 |
| Southwest cor. 4½ and Pa. ave., NW | 12 | 22,700 | 12.3 | 133.7 | 20 | 46.20 | 87.50 | 25 | 57.75 | 75.95 |
| South side Pa. ave. bet. 3d and 4½, NW | 12 | 23,200 | 11.6 | 134.4 | 20 | 46.20 | 88.20 | 25 | 57.75 | 76.65 |
| Southwest cor. 3d and Pa. ave., NW | 12 | 23,450 | 10.2 | 135.8 | 20 | 46.20 | 89.60 | 25 | 57.75 | 78.05 |
| South side Pa. ave. bet. 2d and 3d, NW | 12 | 23,750 | 10.6 | 135.4 | 20 | 46.20 | 89.20 | 25 | 57.75 | 77.65 |
| Front of City Hall, NW | 12 | 23,830 | 47.8 | 98.2 | 10 | 23.10 | 75.10 | 15 | 34.65 | 63.55 |
| Corner Jones's Court and 4½, NW | 12 | 22,900 | 11.1 | 134.9 | 20 | 46.20 | 88.70 | 25 | 57.75 | 77.15 |
| Southwest cor. 4½ and Md. ave., SW | 12 | 24,620 | 14.5 | 131.5 | 15 | 34.65 | 96.85 | 20 | 46.20 | 85.30 |
| Northwest cor. 4½ and C, SW | 12 | 24,940 | 17.1 | 128.9 | 15 | 34.65 | 94.25 | 20 | 46.20 | 82.70 |
| Northwest cor. 4½ and D, SW | 12 | 25,280 | 18.1 | 127.9 | 13 | 30.03 | 97.87 | 17½ | 40.42 | 87.48 |
| Southeast cor. 4½ and Va. ave., SW | 12 | 25,610 | 16.1 | 129.9 | 13 | 30.03 | 99.87 | 17½ | 40.42 | 89.48 |
| Southwest cor. 4½ and E, SW | 12 | 26,040 | 16.8 | 128.2 | 13½ | 31.18 | 98.02 | 18½ | 42.73 | 86.47 |
| Northwest cor. 4½ and F, SW | 12 | 26,300 | 17.5 | 128.5 | 12½ | 28.87 | 99.63 | 17 | 39.27 | 89.23 |
| Southwest cor. 4½ and G, SW | 12 | 26,630 | 16.6 | 129.4 | 13 | 30.03 | 99.37 | 17 | 39.27 | 90.13 |
| Northwest cor. 4½ and I, SW | 12 | 27,340 | 18.6 | 127.4 | 12½ | 28.87 | 98.53 | 15 | 34.65 | 92.75 |
| Southwest cor. 4½ and K, SW | 12 | 27,790 | 16.1 | 129.9 | 13 | 30.13 | 99.77 | 17 | 39.27 | 90.63 |
| Northwest cor. 4½ and L, SW | 12 | 28,000 | 18.2 | 127.8 | 10 | 23.10 | 104.70 | 15½ | 36.80 | 91.00 |
| Southwest cor. 4½ and M, SW | 12 | 28,500 | 20.7 | 125.3 | 10 | 23.10 | 102.20 | 15½ | 36.80 | 88.50 |
| Southwest cor. 4½ and N, SW | 12 | 29,200 | 18.6 | 127.4 | 10 | 23.10 | 104.30 | 15 | 34.65 | 92.75 |
| Southwest cor. 4½ and O, SW | 12 | 29,680 | 19.8 | 126.2 | 10 | 23.10 | 103.10 | 15 | 34.65 | 91.55 |
| Northeast cor. 22d and K, NW | 12 | 12,540 | 65.7 | 80.3 | 18 | 41.58 | 38.72 | 20½ | 47.35 | 32.95 |
| Northwest cor. 21st and K, NW | 30 | 13,000 | 57.3 | 88.7 | 24 | 55.44 | 33.26 | 26½ | 61.21 | 27.49 |
| Northeast cor. 20th and K, NW | 30 | 13,680 | 61.7 | 84.3 | 21½ | 49.66 | 34.64 | 23½ | 54.28 | 30.02 |
| Northwest cor. 18th and K, NW | 30 | 14,320 | 67.2 | 78.8 | 19 | 48.89 | 34.91 | 22 | 50.82 | 27.98 |
| Northwest cor. Conn. ave. and K, NW | 30 | 14,760 | 57.8 | 88.2 | 26 | 60.06 | 28.14 | 28 | 64.68 | 23.52 |
| Northeast cor. 16th and K, NW | 30 | 16,120 | 53.8 | 92.2 | 23 | 53.13 | 39.07 | 25½ | 58.90 | 33.30 |
| South side K bet. 15th and 16th, NW | 30 | 16,400 | 56.8 | 89.2 | 19½ | 45.04 | 44.16 | 23 | 53.13 | 36.07 |
| Southwest cor. 11th and K, NW | 30 | 18,650 | 67.8 | 78.2 | 11½ | 26.56 | 51.64 | 15 | 34.65 | 43.55 |
| Southwest cor. 10th and K, NW | 30 | 19,030 | 66.2 | 79.8 | 13½ | 31.18 | 48.62 | 17 | 39.27 | 40.53 |
| South side K bet. 9th and 10th, NW | 30 | 19,300 | 63.3 | 82.7 | 13 | 30.03 | 52.67 | 16 | 36.96 | 45.74 |
| Southwest cor. 9th and K, NW | 30 | 19,560 | 63.5 | 82.5 | 13 | 30.03 | 52.47 | 18 | 41.58 | 40.92 |
| Southeast cor. 8th and K, NW | 30 | 20,000 | 58.1 | 87.9 | 15½ | 36.38 | 51.52 | 19 | 43.89 | 44.01 |
| Southwest cor. 7th and K, NW | 30 | 20,210 | 60.3 | 85.7 | 15 | 34.65 | 50.05 | 17 | 39.27 | 45.43 |
| Southwest cor. 6th and Mass. ave., NW | 30 | 20,810 | 50.2 | 95.8 | 19½ | 45.04 | 50.76 | 24 | 55.44 | 40.36 |
| Southeast cor. 5th and Mass. ave., NW | 30 | 21,340 | 48.4 | 97.6 | 19 | 43.89 | 53.71 | 24 | 55.44 | 42.16 |
| South side Mass. ave. bet. 4th and 5th, NW | 30 | 21,780 | 47.8 | 98.2 | 20 | 47.35 | 50.85 | 25 | 57.75 | 40.45 |
| Northwest cor. 4th and Mass. ave., NW | 30 | 21,900 | 46.7 | 99.3 | 19½ | 45.04 | 54.26 | 25 | 57.75 | 41.55 |
| Northwest cor. 2d and Mass. ave., NW | 30 | 22,690 | 50.9 | 95.1 | 23 | 53.13 | 41.97 | 26½ | 60.64 | 34.46 |
| Northwest cor. N. J. ave. and G, NW | 30 | 23,280 | 31.2 | 114.8 | 31½ | 72.76 | 42.04 | 35½ | 82.00 | 32.80 |
| Northwest cor. N. J. ave. and F, NW | 30 | 23,710 | 28.7 | 117.3 | 35 | 80.85 | 36.45 | 37 | 85.47 | 31.83 |
| Northwest cor. N. J. ave. and E, NW | 30 | 24,190 | 29.6 | 116.4 | 20 | 46.20 | 70.20 | 25 | 57.75 | 58.65 |
| Southwest cor. N. J. ave. and D, NW | 30 | 24,840 | 20.5 | 125.5 | 25 | 57.75 | 67.75 | 26½ | 60.64 | 64.86 |
| Southwest cor. N. J. ave. and C, NW | 30 | 25,390 | 32.6 | 113.4 | 17 | 39.27 | 74.13 | 21 | 48.51 | 64.89 |
| Northeast cor. N. J. ave. and B, NW | 30 | 25,800 | 49.7 | 96.3 | 25½ | 58.33 | 37.97 | 27½ | 62.95 | 33.35 |
| Northwest cor. Del. ave. and B, NE | 20 | 26,500 | 73.7 | 72.3 | 14½ | 33.45 | 38.85 | 17 | 39.27 | 33.03 |
| Northeast cor. 1st and B, NE | 20 | 27,090 | 80.7 | 65.3 | 12 | 27.72 | 37.58 | 16 | 36.96 | 28.34 |
| Northwest cor. 2d and Md. ave., NE | 20 | 27,640 | 88.7 | 53.3 | 9½ | 21.94 | 31.36 | 11 | 25.41 | 27.89 |
| Northwest cor. 4th and B, NE | 20 | 28,500 | 85.4 | 60.6 | 10 | 23.10 | 37.50 | 11½ | 25.56 | 35.04 |
| Southeast cor. 6th and B, NE | 20 | 29,230 | 87.5 | 58.5 | 9 | 20.79 | 37.71 | 11 | 25.41 | 33.09 |
| Northwest cor. 7th and Mass. ave., NE | 20 | 29,800 | 79.0 | 67.0 | 11½ | 26.56 | 40.44 | 14½ | 33.45 | 33.55 |
| Northwest cor. 8th and B, NE | 20 | 30,100 | 79.9 | 66.1 | 11½ | 26.56 | 39.54 | 14½ | 33.49 | 32.61 |
| Northeast cor. 1st and Md. ave., NE | 12 | 27,200 | 85.8 | 60.2 | 10 | 23.10 | 37.10 | 11½ | 26.56 | 33.64 |
| Southeast cor. 1st and B, SE | 12 | 28,650 | 83.1 | 62.9 | 9 | 20.79 | 42.11 | 10½ | 24.25 | 38.65 |
| Southwest cor. 4th and Pa. ave., SE | 12 | 30,100 | 76.4 | 69.6 | 10½ | 24.25 | 45.35 | 13 | 30.03 | 39.57 |
| Southwest cor. 5th and C, SE | 12 | 30,750 | 77.8 | 68.2 | 6½ | 15.01 | 53.19 | 10½ | 25.25 | 42.95 |
| Southwest cor. 6th and Pa. ave., SE | 12 | 30,760 | 83.2 | 62.8 | 7 | 16.17 | 46.63 | 10 | 23.10 | 39.70 |
| Northwest cor. 7th and D, SE | 12 | 31,500 | 76.6 | 69.4 | 5 | 11.55 | 57.85 | 9 | 20.79 | 48.61 |
| Southeast cor. 8th and E, SE | 12 | 32,560 | 70.8 | 75.2 | 7 | 16.17 | 59.03 | 10 | 23.10 | 52.10 |
| Southwest cor. 8th and G, SE | 12 | 33,060 | 71.8 | 74.2 | 7 | 16.17 | 58.03 | 11 | 25.41 | 48.79 |
| Southeast cor. 8th and I, SE | 12 | 33,780 | 62.4 | 83.6 | 9½ | 21.94 | 61.66 | 13 | 30.03 | 53.57 |
| Southeast cor. 8th and L, SE | 12 | 34,400 | 54.0 | 92.0 | 10½ | 25.25 | 66.75 | 15½ | 36.80 | 55.20 |

WASTE.

The principal sources of waste are, first, the establishments of the General Government; second, those of the District government; third, business establishments and private houses; fourth, leaks from mains; fifth, leaks from defective service pipes and hydrants.

Over the first of the above the water division has absolutely no control. It can not even regulate the valves governing the admission of water into them. Its inspectors have no authority to enter the buildings or inclosures of the General Government, and the division remains in ignorance of the quantity of water used in these establishments, beyond the fact that it is undoubtedly very great.

I therefore repeat the urgent recommendation of at least one of my predecessors, that some officer of the General Government be given authority to make and enforce regulations to prevent this waste, and to communicate to the Engineer Commissioner such information regarding the water supply to this class of establishments, as is essential to a regulation of the distribution system as a whole.

A rigid inspection has recently been made of all the establishments of the District government, with a view to controlling their use of water. In some of the school-houses the waste has been found to be serious, and far beyond any rational demand for sanitary purposes. Measures have been taken to suppress this waste and to prevent its recurrence. Just as soon as the state of the water fund will permit the necessary expenditures, meters should be placed on the service pipes of all these establishments, to serve as a check on the janitors.

The waste in business establishments is undoubtedly great. A large part of it can readily be prevented by compelling the introduction of meters. The Commissioners have taken decisive steps in this direction by their order of November 7, 1888, requiring all premises embraced in the law of July 14, 1870, to have suitable meters in operation on or before July 1, 1889.

Meanwhile, no new taps are issued for business purposes needing a large quantity of water without requiring the immediate introduction of meters.

At present the only means of preventing waste in private houses is through the visits of the inspectors. This is universally recognized as being totally inadequate. If the waste continues, resort must be had to the police court, under customs which, without intending to reflect upon the legal machinery employed, are so cumbersome as to be practically inoperative. For example, the sworn testimony of one inspector is not sufficient to establish a case of waste, even though he may have observed it a dozen times. The inspectors are thus obliged to hunt in pairs. When the case comes up for trial, the two inspectors must spend fully half a day, and often more, in attendance at court. The whole number of inspectors is seven, and from the above it can be readily seen that unless the cases are strictly dealt with in the police court, their prosecution is practically a waste of time and money for the water department. As a matter of fact, only instances of flagrant waste are prosecuted. Nevertheless, these cases are dismissed, or personal bonds are taken, in so large a proportion of the number prosecuted, as to deprive the convictions of nearly their whole effect as examples. Such legislation should be enacted as will authorize the water division to shut off the supply from any premises where water is wasted through open or defective fixtures, after twenty-four hours' warning; and not to re-

store it until all defects are repaired, and upon the payment of from \$3 to \$5 for cutting off and turning on the water.

The loss of water arising from leaks in the system of mains and in defective service pipes is presumably great. Leaks of this kind can not be discovered until the water rises to the surface of the street, and the sheet-asphalt pavements prevent their detection for long periods. The water division is constantly engaged in keeping down the waste from these sources, by repairing all leaks in mains as fast as they are discovered, and requiring the prompt repair of leaky service pipes.

It is probable that there will soon be available some effective and fairly inexpensive instrument for measuring the flow of water in mains. A great want exists in this respect, and when it is met the detection of leaky mains will be easy, and defects of the kind can be systematically corrected.

WATER METERS.

It is gratifying to be able to report some progress in carrying out the existing law concerning meters. Fourteen of these are now in use, seven having been set since the beginning of the current fiscal year, while a number of others are ready to be placed.

The following recent order and regulations on this subject are added hereto, in order that they may become part of the printed records of the office :

Ordered, That all establishments embraced in the provisions of section 216, chapter 8, of the Revised Statutes of the United States relating to the District of Columbia, shall have a suitable water meter on each service pipe connected with the water mains on or before July 1, 1889. After that date no water will be supplied to said establishments, except through meters, at meter rates, now fixed at 3 cents per thousand gallons.

The meters must be of the kinds adopted by the Commissioners, and must be set in accordance with the regulations of the water department.

Approved November 7, 1888.

RULES AND REGULATIONS OF DISTRICT OF COLUMBIA, CONCERNING WATER METERS.

The law, section 216, R. S. D. C., provides that : "The supply of water to all manufacturing establishments, hotels, livery stables, and other places requiring a large quantity shall be by meters erected and maintained at the expense of the consumer; and the proper authorities shall charge and collect for the quantity so determined a price not exceeding 3 cents per hundred gallons."

(1) All meters before being placed must be sent, with a memorandum of the owner's or purchaser's name, residence, and place of business, to the U street pumping station. They will be tested within forty-eight hours, and given back, upon the written order of the owner, showing the name of the plumber who is to receive and set the meter.

(2) Consumers are required to keep their meters in repair and protect them from frost and injury of any kind, at their own expense.

(3) All meters are to be placed under the supervision and to the satisfaction of the Engineer Commissioner, or such person as he may designate, so that they can be easily examined and read.

(4) Between each meter and the main a stop-cock must be placed on the service pipe and no water from the mains shall be introduced or used on premises to be supplied by meter, except that which passes through the meter.

(5) No meter shall be set within two feet of any sink, privy, cess-pool, manure-heap or pit.

(6) Registered plumbers of the District and employes of the water department, are the only persons authorized to make connections with water mains and to set or remove meters.

(7) No meter shall be removed or repaired except upon a permit from the water department, and whenever a meter is removed for any cause the Engineer Commissioner may require another to be put in its place.

(8) If the consumer shall so desire, and shall deposit the estimated cost, the water department will supply and set the meter.

(9) In case of violation of any of the preceding requirements and regulations, or if free access to the meters, for examination or repair, shall at any time be denied to the

inspector or such person or persons as the Engineer Commissioner may employ for that purpose, or if upon examination it shall be found that the meter has been tampered with, the water supply shall be stopped; nor will the supply be resumed except upon payment of the expense of shutting off and turning on, and upon satisfactory understanding that no future cause of complaint shall arise.

(10) The meters will be read monthly, and bills will be rendered quarterly. Payment will be required within ten days from rendering bill.

(11) When a meter fails to register correctly, or bears evidence of having being tampered with, an average consumption will be charged, as the Commissioners may determine.

Approved November 7, 1888.

W. B. WEBB,
S. E. WHEATLEY,
CHARLES W. RAYMOND,
Commissioners District of Columbia.

The enforcement of these measures will undoubtedly have an influence in preventing misuse of water, which will be shown by increased pressures throughout the system of mains.

The following is a statement of the meters in use to date :

| Kind. | Size. | Number. |
|------------------|----------------|---------|
| | <i>Inches.</i> | |
| Crown..... | 6 | 1 |
| Do..... | 3 | 1 |
| Do..... | 1 | 1 |
| Worthington..... | 4 | 2 |
| Do..... | 1½ | 7 |
| Do..... | 1 | 2 |
| Total | | 14 |

A temporary apparatus for testing meters before they are set has been erected at the U-street station. It will be enlarged and improved during the coming winter.

It has been objected that the meter is an imperfect machine, which easily gets out of order. The best kinds of meters (six or eight in number) have records, by special tests and continuous service, which entirely disprove this objection. It is also urged that meters will not work here, owing to the turbidity of the Potomac water at certain seasons. This objection falls, in the light of the experience of Saint Louis, Mo., where about 2,700 meters are used to measure water from the Mississippi River, which is quite turbid all but a few weeks of the year. Several brands of meters now made are registering machines of great accuracy and wonderful durability, considering the character of the work required of them.

The best evidence of the practical benefits to be derived from their introduction is that their use is constantly extending at a rapid rate. It must not be understood, however, that meters do not require careful setting and supervision. Like other machines of which accurate work is required, they must be inspected and tested, and at times repaired.

I can not refrain from expressing my sincere belief that the Commissioners, by merely insisting on the observance of the law now in force concerning meters, will perform a lasting service to the community, sensibly improving the existing water supply, by taking advantage of the only adequate means the present state of civilization affords for repressing waste.

PUBLIC HYDRANTS.

While in many cases undoubtedly necessary, the public hydrants, generally speaking, constitute a wide-spread and expensive nuisance. They

continually get out of order, destroy the neighboring pavement and sidewalk, and give rise to objectionable pools of water in summer and dangerous sheets of ice in winter. They are also the source of serious and almost uncontrollable waste of water, and, in localities most needing it, effectually delay the introduction of running water, and its necessary accompaniment, house-drainage. On an average, each hydrant in use during the fiscal year 1888 had to be repaired four times within that period.

Furthermore, the regular water-rent payers of the District are obliged, by law, to pay for the erection of each hydrant, its maintenance, and the water which flows from it. These hydrants should at least be self-supporting, so far as regards the water division, and I recommend that they be made so in one of two ways. Legislation should be procured, authorizing either a special assessment payable to the water fund, of from \$3 to \$5, according to the size of buildings, to be levied upon all premises situated within 500 feet of a public hydrant, which premises are not supplied with water in the ordinary manner; or, an annual payment from the general fund of the District to the water fund of \$30 for each public hydrant in service at the beginning of the fiscal year. In the first instance, the proposed legislation would shift the burden of the hydrants from the water-rent payers to the owners or occupants of the premises benefited; in the second case, the general fund of the District would meet the cost of a charity which is now very improperly dispensed at the sole expense of the water fund.

PETITIONS FOR SERVICE MAINS.

The injustice of the law on this subject has been recognized for years, and the enactment of a new law giving the Commissioners authority to lay such mains as in their judgment are needed for the public service has several times been recommended. It is sufficient to say here that the existing law continues to work great hardship in many cases.

PUBLIC PUMPS.

The appropriation for public pumps for the fiscal year 1888 was \$3,000. Of this there was expended the sum of \$2,798.42. For 1889 the appropriation was increased to \$4,000.

Fifty-nine new pumps were erected and three wells abandoned during the year. Every effort is made to prolong the life of the wells, and, except in extreme cases, none are condemned until persistent cleaning and frequent analyses have shown the water to be unfit for human consumption.

The water of the wells in use is a great comfort to poor people during hot weather, and a welcome relief to all classes when an accident occurs to a supply main.

An appropriation of \$5,000 is asked for public pumps for the fiscal year 1889. The increased sum is needed to replace old pumps, many of which are complained of as giving a disagreeable taste to the water, in addition to being inconvenient for use.

SEWER DIVISION.

Under the temporary organization of last year this division has continued to effect satisfactory results.

Acting Superintendent D. E. McComb has remained at the head of the division, which, on account of the character and magnitude of its

work, is entitled to a permanent organization. I therefore strongly recommend legislation to this end, no change to be made in the existing force, or in their present rates of compensation.

PROPOSED ORGANIZATION OF SEWER DIVISION.

| | |
|--|----------|
| One superintendent of sewers | \$2, 400 |
| One inspector of sewers | 1, 200 |
| Two clerks, at \$1, 200 | 2, 400 |
| One assistant engineer | 1, 500 |
| One rodman | 780 |
| Two axemen, at \$650 | 1, 300 |
| One sewer tapper | 1, 000 |
| One assistant sewer tapper | 626 |
| Two property-yard clerks, at \$929 | 1, 878 |
| Total | 13, 084 |

CLEANING AND REPAIRING SEWERS AND BASINS.

| | |
|-------------------------------|---------------|
| Appropriation, 1887-'88 | \$30, 000. 00 |
| Expended, 1887-'88 | 29, 885. 36 |
| Appropriation, 1888-'89 | 35, 000. 00 |
| Estimate, 1889-'90 | 35, 000. 00 |

The following statement, from the report of Acting Superintendent D. E. McComb, summarizes the work done during the fiscal year 1888:

| | | |
|------------------------------------|---------------|----------|
| Pipe sewers cleaned | linear feet.. | 133, 639 |
| Brick sewers cleaned | do | 4, 270 |
| Pipe sewers laid | do | 1, 025 |
| Receiving basins cleaned | do | 37, 552 |
| Receiving basins repaired | | 265 |
| Man-holes constructed | | 21 |
| Man-holes repaired | | 103 |
| Brick sewers repaired | | 235 |
| Covers set | | 3 |
| Receiving basins constructed | | 28 |
| Minor repairs to sewers | | 395 |
| Inlet catch-basins cleaned | | 3 |

Owing to the insufficiency of last year's appropriation, repairs to several important sewers had to be postponed to the current fiscal year.

REPLACING OBSTRUCTED SEWERS.

| | |
|-------------------------------|--------------|
| Appropriation, 1887-'88 | \$7, 500. 00 |
| Expended, 1887-'88 | 7, 405. 50 |
| Appropriation, 1888-'89 | 10, 000. 00 |
| Estimate, 1889-'90 | 15, 000. 00 |

The following is a summary of the work done, by contract and day labor, under this appropriation during the fiscal year 1888:

| By contract: | Linear feet. | By day labor: | Linear feet. |
|--------------------------|--------------|--------------------------|--------------|
| 12-inch pipe sewer | 2, 982 | 12-inch pipe sewer | 1, 313 |
| 15-inch pipe sewer | 269 | 15-inch pipe sewer | 528 |
| 18-inch pipe sewer | 465 | 20-inch pipe sewer | 32 |

The appropriation for 1887-'88 was entirely insufficient to do all the work urgently needed. Many of the older sewers will have to be replaced, in some instances on account of defective grade, in others because roots of trees entering through open joints have nearly or entirely filled the pipes.

CONSTRUCTION OF MAIN AND PIPE SEWERS.

| | |
|-------------------------------|---------------|
| Appropriation, 1887-'88 | \$50, 000. 00 |
| Expended, 1887-'88 | 49, 923. 34 |
| Appropriation, 1888-'89 | 70, 000. 00 |
| Estimates, 1889-'90 | 150, 000. 00 |

The work done under contract during the year is as follows:

| | | |
|--------------------------------------|---------------|-----------|
| 12-inch pipe sewers..... | linear feet.. | 12, 778 |
| 15-inch pipe sewers | do..... | 866 |
| 18-inch pipe sewers | do..... | 535 |
| 20-inch pipe sewers | do..... | 309 |
| 2.25 by 3.375 feet brick sewers..... | do..... | 680 |
| 2.5 by 3.75 feet brick sewers..... | do..... | 350 |
| 2.75 by 4.125 feet brick sewers..... | do..... | 1, 673. 5 |
| 3 by 4.5 feet brick sewers | do..... | 529 |
| 3.5 by 5.25 feet brick sewers..... | do..... | 210 |
| 4.5 by 6.75 feet brick sewers..... | do..... | 400 |
| Receiving basins..... | | 48 |
| Pipe connections..... | linear feet.. | 1, 167 |

There was performed by day labor the following described work :

| | |
|--|------------------|
| Receiving basins constructed and connected with sewers | 24 |
| Receiving basins connected with sewers | 4 |
| 6-inch pipe sewers..... | linear feet.. 75 |
| 8-inch pipe sewers | do..... 356 |
| 12-inch pipe sewers | do..... 856. 5 |
| 18-inch pipe sewers | do..... 334. 5 |
| 24-inch pipe sewers | do..... 218 |
| 4.5 by 6.75 feet brick sewers..... | do..... 260 |

The following sewers are proposed for construction with the \$150,000 estimated for above:

| | |
|---|----------|
| To relieve existing sewers now overcharged: | |
| Eighth street east, from Maryland avenue to F street north, thence west-ward to Seventh and F streets northeast | \$4, 503 |
| Pennsylvania avenue, between Seventeenth and Eighteenth streets northwest | 4, 675 |
| Eighteenth street northwest, between Pennsylvania avenue and Virginia avenue | 11, 700 |
| First street southeast, between D and E streets | 2, 500 |
| K street northwest, between Fourth and North Capitol streets | 12, 300 |
| Rhode Island avenue, between Seventh and Tenth streets..... | 7, 000 |
| K street southeast, from Sixth street to Fourth street, and on Fourth street from K to Eastern Branch..... | 11, 000 |
| Seventh street southeast, from E to I street | 4, 200 |
| K street southwest, from Third to James Creek Canal..... | 5, 600 |
| To provide trunk sewers for growing sections of the city, James Creek now inadequately supplied: | |
| L street northeast, between Third and Boundary streets | 16, 875 |
| Fourteenth street southeast, from Eastern Branch northward | 10, 000 |
| To extend existing sewers to deep water: | |
| Ninth street southeast, from N street to Eastern Branch | 4, 000 |
| Total..... | 94, 353 |
| <hr/> | |
| Terra-cotta pipe sewers | 50, 000 |
| Receiving basins..... | 5, 647 |

The amount asked for is needed to do work which can not long be deferred. If a smaller sum be appropriated, only the more pressing cases can be reached, and the others, almost as urgently needed, will have to await future appropriations.

SUBURBAN SEWERS.

| | |
|-------------------------------|---------------|
| Appropriation, 1887-'88 | \$35, 000. 00 |
| Expended, 1887-'88 | 34, 669. 10 |
| Appropriation, 1888-'89 | 35, 000. 00 |
| Estimates, 1889-'90 | 70, 000. 00 |

With the \$70,000 asked for, the following work is proposed for construction during the coming fiscal year :

| | |
|--|----------|
| Anacostia main sewer..... | \$10,000 |
| Champlain avenue sewer, from Boundary to Superior street..... | 4,988 |
| Superior street, from Champlain avenue to Sixteenth street | 7,750 |
| Extension on First street west, extended | 10,000 |
| Intercepting sewer in Rock Creek valley..... | 25,000 |
| Terra-cotta pipe sewers..... | 12,262 |
| Total | 70,000 |

The Anacostia sewer is needed to conduct the water of a large stream which now practically cuts the village into two parts. The line adopted is from the intersection of Adams and Jefferson streets along Adams street to Jackson, thence along Jackson street to Fillmore, there discharging into the existing 6-foot sewer.

The Champlain avenue and Superior street sewers are intended to provide a trunk line for a rapidly growing district. The construction of the sewers should precede the grading of the streets named.

The extension of the sewer on First street (west) extended will also provide drainage for a rapidly growing area.

With the \$25,000 estimated it is proposed to build a sewer along Rock Creek, from P street to Woodley lane, to intercept sewage but not storm water; the latter is to flow, as now, into Rock Creek.

The pipe sewers are needed to meet demands for local drainage in many localities.

SEWAGE DISPOSAL.

For the current fiscal year there is an appropriation of \$5,000 for the preparation of plans for sewage disposal. Work is in progress in this direction, but owing to the lateness of the season when the funds became available it is doubtful whether the plans can be completed within the year.

PERMIT SEWERS.

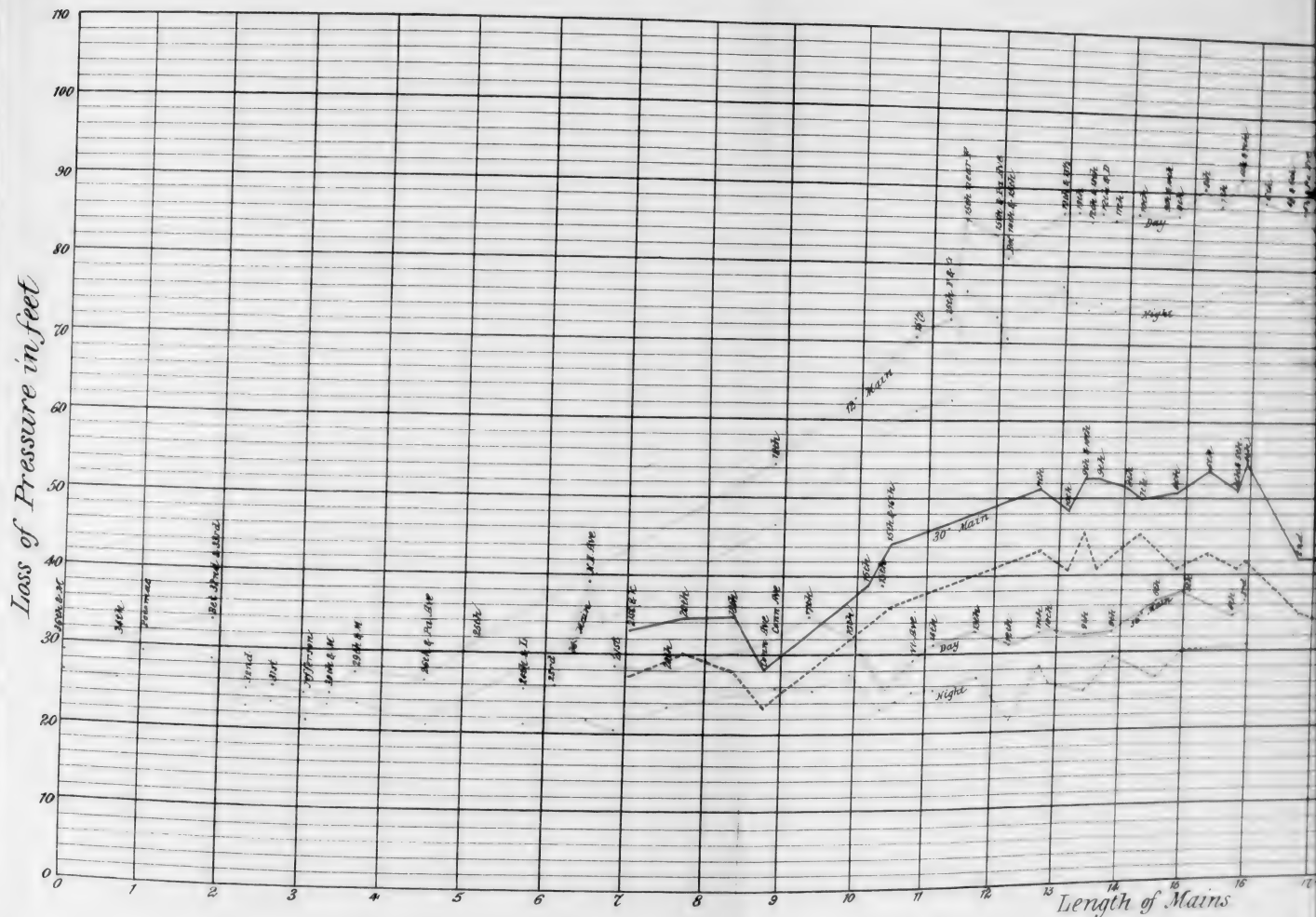
The following is a summary of work done under the permit system :

| | |
|---|---------------|
| Pipe sewers, under compulsory permit system.....linear feet.. | 7,985 |
| Pipe sewers, under voluntary permit system | do.... 14,759 |
| Concrete sewers, under voluntary permit system | do.... 677 |
| Number of man-holes constructed | 230 |
| Number of receiving-basins constructed | 8 |
| Cost of material to District of Columbia..... | \$13,517.42 |
| Cost of material to applicant..... | 1,271.33 |
| Cost of labor to applicant..... | 19,638.82 |
| Total..... | 34,427.57 |

The last appropriation act changed the law regarding permit work so as to divide the cost equally between the District and the applicant, in the case of voluntary permit work, or between the District and the property benefited, when compulsory permit work is done. The change, so far as concerns sewers, is to the advantage of the property owner. Thirty thousand dollars can be advantageously expended in constructing sewers under the permit system during the coming year.

I present herewith a map showing the system of sewers as it now exists.

*Curves showing Loss of Pressure on Prince
due to consumption of water, friction*



D C50 2

| | | | |
|-------------------------|---------------|-------------------|-----|
| Upper yellow lines show | 12" main from | M & 36th St along | M |
| Lower | 12" " | B & 1st N.E | 1st |
| Green | 36" " | M & 36th | M |
| Red | 30" " | | |
| Black | 20" " | N.J Ave & B.N | B |

Full lines = Loss of Head during day
Dotted " = " " " " " night



Full lines = Loss of Head during day
Dotted " " " " " " night.

Summary of estimates, 1889-'90.

| | |
|--|-----------|
| Cleaning and repairing sewers and basins..... | \$35, 000 |
| Replacing obstructed sewers..... | 15, 000 |
| Main and pipe sewers | 150, 000 |
| Constructing suburban sewers..... | 70, 000 |
| Compulsory sewerage and sewer permit work..... | 30, 000 |
| Plans and details for sewage disposal..... | 5, 000 |
| Sewer division, salaries..... | 13, 084 |
| Cement house..... | 1, 000 |
| Total..... | 319, 084 |

Comparative statement of appropriations, with estimates for 1889-'90.

| | 1887-'88. | 1888-'89. | Estimates,
1889-'90. |
|---|-----------|-----------|-------------------------|
| Cleaning and repairing sewers and basins..... | \$30, 000 | \$30, 000 | \$35, 000 |
| Replacing obstructed sewers..... | 7, 500 | 10, 000 | 15, 000 |
| Main and pipe sewers..... | 50, 000 | 70, 000 | 150, 000 |
| Suburban sewers..... | 35, 000 | 35, 000 | 70, 000 |
| Compulsory sewerage and permit sewers | | *25, 000 | *30, 000 |
| Sewage disposal..... | | 5, 000 | |
| Salaries, office of superintendent..... | | | 13, 084 |
| Cement house..... | | | 1, 000 |

*Allotment from appropriation "for the improvement and repairs of alleys and sidewalks, and the construction of sewers under the permit system."

SURVEY OF THE DISTRICT.

The progress of this survey is shown by the following table :

| | 1886-'87. | 1887-'88. |
|--|-----------|-----------|
| Number of sheets photolithographed..... | 15 | 19 |
| Number of sheets field-work completed | 8 | 8 |
| Number of sheets field-work partially completed..... | 16 | 21 |
| Number of sheets field-work not commenced | 21 | 12 |
| Total..... | 60 | 60 |

Under the current appropriation of \$10,000 the work is being rapidly pushed, there being three parties in the field, in charge, respectively, of Assistants Hodgkins, Wainwright, and Flemer, of the U. S. Coast and Geodetic Survey, while a fourth party, under Assistant J. W. Donn, is to be added about January 1, 1889. It will require about \$10,000 to complete the survey upon the existing basis, and as the full set of maps is greatly needed, I recommend the appropriation of the whole sum named for the ensuing fiscal year.

STORE-HOUSE FOR CEMENT.

As the District supplies the cements used in its public work, it is necessary, in order to allow the requisite tests to be made, that a store-house be provided, of sufficient capacity to store several thousand barrels at a time. The cost of a suitable building is estimated at \$1,000, and its construction is recommended.

INSPECTOR OF ASPHALT AND CEMENTS.

The report of this officer contains many interesting details of valuable tests and analyses of building and paving materials, oils, and food prod-

ucts. The examinations of well water, in particular, have been of great assistance to the water division in determining whether or not to abandon suspected wells.

With the current appropriation of \$1,000 the laboratory has been put in good working condition. For the ensuing fiscal year there is recommended for general and current expenses the sum of \$500.

HARBOR AND RIVER FRONT.

Attention is once more invited, as has frequently been the case in former years, to the need of laws, rules and regulations governing the use of the harbor and its front. The Commissioners should have authority to make and enforce the necessary regulations without further delay.

Very respectfully, your obedient servant,

JAS. L. LUSK,
Captain of Engineers, U. S. Army.

Maj. CHAS. W. RAYMOND,
Corps of Engineers, U. S. Army,
Engineer Commissioner, District of Columbia.

C 1.—*Tabulated statement of clerical work performed in the engineer department.*

| | 1886-'87. | 1887-'88. |
|---|-----------|-----------|
| Number of communications received, briefed, and recorded in Letters Received Book | 6, 547 | 6, 125 |
| The number of indorsements, references, and reports upon these were | 46, 829 | 36, 738 |
| Number of letters and orders | 5, 304 | 3, 501 |
| Number of copies of contracts drawn and recorded | 429 | 252 |
| Number of permits (gas, sewer, water, and miscellaneous) issued | 7, 031 | 6, 438 |
| Number of vouchers and bills prepared and forwarded in triplicate | 2, 241 | 3, 750 |

C 2.—Consolidated summary statement of operations of the engineer department, showing the expenditures for the past fiscal year, together with appropriations made for the fiscal year ending June 30, 1889, and the estimates for the fiscal year ending June 30, 1890.

| Description. | Expenditures
for fiscal
year ending
June 30, 1888. | Appropriations for fiscal
year ending
June 30, 1889. | Estimates for
fiscal year
ending June
30, 1890. |
|---|---|--|--|
| ENGINEER DEPARTMENT. | | | |
| Salaries | \$55,161.55 | \$40,050.00 | \$60,365.00 |
| Contingent expenses | 5,000.00 | 4,600.00 | 4,600.00 |
| Office of inspector gas and meters | 744.86 | | |
| Office of inspector asphalt and cement | | 1,000.00 | 500.00 |
| WATER DEPARTMENT. | | | |
| Salaries | 9,536.00 | 15,336.00 | 16,600.00 |
| Contingent expenses | 2,400.00 | 2,500.00 | 3,000.00 |
| Pumping expenses and pipe distribution | 98,130.91 | 130,000.00 | 86,500.00 |
| Pumping engines for high service | 29,641.24 | | |
| Laying new water main (Fourteenth street) | | 31,000.00 | |
| Interest and sinking fund on account of water supply | 76,655.69 | 86,962.35 | 86,415.64 |
| Interest and sinking fund on account of water-stock bonds | 44,610.00 | 44,610.00 | 44,610.00 |
| MISCELLANEOUS. | | | |
| Cleaning and repairing sewers and basins | 29,885.36 | 30,000.00 | 35,000.00 |
| Preparation of plans for sewage disposal | | 5,000.00 | |
| Replacing obstructed sewers | 7,405.50 | 10,000.00 | 20,000.00 |
| Main and pipe sewers | 49,923.34 | 70,000.00 | 150,000.00 |
| Construction of suburban sewers | 34,669.10 | 34,000.00 | 70,000.00 |
| Public hay scales | | 50.00 | 250.00 |
| Pumps, purchase and repair | 2,980.32 | 4,000.00 | 4,000.00 |
| Improvement streets and avenues, and replacement of pavements | 36,679.22 | 615,000.00 | 1,079,804.00 |
| Grading streets, alleys, and roads | 2,324.89 | 15,000.00 | 15,000.00 |
| Repairs to concrete pavements | 79,998.48 | 95,000.00 | 230,000.00 |
| Material for permit work | 90,000.00 | 90,000.00 | 200,000.00 |
| Construction and repair of bridges | 9,210.79 | 14,500.00 | 12,500.00 |
| Ordinary care of bridges | 1,503.58 | 2,500.00 | 3,400.00 |
| Current repairs streets, avenues, and alleys | 30,000.00 | 35,000.00 | 50,000.00 |
| Current repairs county roads and suburban streets | 24,999.35 | 45,000.00 | 60,000.00 |
| Constructing county roads and suburban streets | 49,680.05 | 88,980.00 | 198,000.00 |
| Condemnation of streets, roads, and alleys | | 10,000.00 | 20,000.00 |
| Lighting streets, etc | 119,769.03 | 105,000.00 | 120,000.00 |
| Electric lighting of streets | | 30,000.00 | 40,000.00 |
| Parking commission | 17,998.27 | 18,000.00 | 25,000.00 |
| Continuation District survey, etc | 3,996.27 | 10,000.00 | 5,000.00 |
| Telegraph and telephone service, investigation of | | 1,000.00 | |
| Constructing bridge over Rock Creek (Woodley Lane) | | 35,000.00 | |
| Purchase of pump-house lot | | 2,275.00 | |
| Sprinkling, sweeping, cleaning streets, avenues, and alleys | 64,400.50 | | 100,000.00 |
| Harbor and river front | 2,500.00 | | 2,500.00 |
| Total | 1,289,808.05 | 1,722,563.35 | 2,743,044.64 |

ucts. The examinations of well water, in particular, have been of great assistance to the water division in determining whether or not to abandon suspected wells.

With the current appropriation of \$1,000 the laboratory has been put in good working condition. For the ensuing fiscal year there is recommended for general and current expenses the sum of \$500.

HARBOR AND RIVER FRONT.

Attention is once more invited, as has frequently been the case in former years, to the need of laws, rules and regulations governing the use of the harbor and its front. The Commissioners should have authority to make and enforce the necessary regulations without further delay.

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Maj. CHAS. W. RAYMOND,
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Engineer Commissioner, District of Columbia.

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|---|-----------|-----------|
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| Number of copies of contracts drawn and recorded | 429 | 252 |
| Number of permits (gas, sewer, water, and miscellaneous) issued | 7, 031 | 6, 438 |
| Number of vouchers and bills prepared and forwarded in triplicate | 2, 241 | 3, 750 |

C 2.—Consolidated summary statement of operations of the engineer department, showing the expenditures for the past fiscal year, together with appropriations made for the fiscal year ending June 30, 1889, and the estimates for the fiscal year ending June 30, 1890.

| Description. | Expenditures for fiscal year ending June 30, 1888. | Appropriations for fiscal year ending June 30, 1889. | Estimates for fiscal year ending June 30, 1890. |
|---|--|--|---|
| ENGINEER DEPARTMENT. | | | |
| Salaries | \$55,161.55 | \$40,050.00 | \$60,365.00 |
| Contingent expenses | 5,000.00 | 4,600.00 | 4,600.00 |
| Office of inspector gas and meters | 744.86 | | |
| Office of inspector asphalt and cement | | 1,000.00 | 500.00 |
| WATER DEPARTMENT. | | | |
| Salaries | 9,536.00 | 15,336.00 | 16,600.00 |
| Contingent expenses | 2,400.00 | 2,500.00 | 3,000.00 |
| Pumping expenses and pipe distribution | 98,130.91 | 130,000.00 | 86,500.00 |
| Pumping engines for high service | 29,641.24 | | |
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| Interest and sinking fund on account of water supply | 76,655.69 | 86,962.35 | 86,415.64 |
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| MISCELLANEOUS. | | | |
| Cleaning and repairing sewers and basins | 29,885.36 | 30,000.00 | 35,000.00 |
| Preparation of plans for sewage disposal | | 5,000.00 | |
| Replacing obstructed sewers | 7,405.50 | 10,000.00 | 20,000.00 |
| Main and pipe sewers | 49,923.34 | 70,000.00 | 150,000.00 |
| Construction of suburban sewers | 34,669.10 | 35,000.00 | 70,000.00 |
| Public hay scales | | 250.00 | 250.00 |
| Pumps, purchase and repair | 2,980.32 | 4,000.00 | 4,000.00 |
| Improvement streets and avenues, and replacement of pavements | 36,679.22 | 615,000.00 | 1,079,804.00 |
| Grading streets, alleys, and roads | 2,324.89 | 15,000.00 | 15,000.00 |
| Repairs to concrete pavements | 79,998.48 | 95,000.00 | 230,000.00 |
| Material for permit work | 90,000.00 | 90,000.00 | 200,000.00 |
| Construction and repair of bridges | 9,210.79 | 14,500.00 | 12,500.00 |
| Ordinary care of bridges | 1,503.58 | 2,500.00 | 3,400.00 |
| Current repairs streets, avenues, and alleys | 30,000.00 | 35,000.00 | 50,000.00 |
| Current repairs county roads and suburban streets | 24,999.35 | 45,000.00 | 60,000.00 |
| Constructing county roads and suburban streets | 49,680.05 | 88,980.00 | 198,000.00 |
| Condemnation of streets, roads, and alleys | | 10,000.00 | 20,000.00 |
| Lighting streets, etc | 119,769.03 | 105,000.00 | 120,000.00 |
| Electric lighting of streets | | 30,000.00 | 40,000.00 |
| Parking commission | 17,996.27 | 18,000.00 | 25,000.00 |
| Continuation District survey, etc | 3,996.27 | 10,000.00 | 5,000.00 |
| Telegraph and telephone service, investigation of | | 1,000.00 | |
| Constructing bridge over Rock Creek (Woodley Lane) | | 35,000.00 | |
| Purchase of pump-house lot | | 2,275.00 | |
| Sprinkling, sweeping, cleaning streets, avenues, and alleys | 64,400.50 | | 100,000.00 |
| Harbor and river front | 2,500.00 | | 2,500.00 |
| Total | 1,289,808.05 | 1,722,563.35 | 2,743,044.64 |

C 3.—Tabulated statement showing estimates and appropriations from

| | 1880. | | 1881. |
|--|-------------|---------------|-------------|
| | Estimated. | Appropriated. | Estimated. |
| <i>Salaries and contingent.</i> | | | |
| Executive office..... | \$21,000.00 | \$21,000.00 | \$22,140.00 |
| Markets..... | 23,500.00 | 20,350.00 | 27,800.00 |
| Assessor's office..... | 15,000.00 | 13,800.00 | 11,500.00 |
| Collector's office..... | 19,000.00 | 19,000.00 | 13,000.00 |
| Auditor's office..... | 10,000.00 | 9,000.00 | 9,000.00 |
| Attorney's office..... | 2,700.00 | 2,700.00 | 2,700.00 |
| Sinking fund..... | 2,500.00 | 2,500.00 | 2,050.00 |
| Coroner's office..... | 86,735.00 | 81,700.00 | 73,686.00 |
| Engineer's office..... | 3,000.00 | 3,000.00 | 3,500.00 |
| Miscellaneous expenses, District offices..... | | | |
| Expenses of assessment of real property..... | | | |
| Total salaries and contingent..... | 183,435.00 | 173,050.00 | 165,376.00 |
| <i>Improvements and repairs.</i> | | | |
| Repairs to concrete pavement..... | 135,000.00 | 100,000.00 | 75,000.00 |
| Material for permit work..... | 15,000.00 | 15,000.00 | 20,000.00 |
| Continuing surveys of the District..... | | | 10,000.00 |
| For sewers, * main pipe..... | | 115,000.00 | 161,000.00 |
| Work on streets and avenues..... | 560,000.00 | 250,000.00 | 431,600.00 |
| Grading streets, alleys and roads..... | | | |
| Total improvements and repairs..... | 710,000.00 | 480,000.00 | 697,600.00 |
| Constructing and maintaining and repairing bridges..... | 9,200.00 | 10,200.00 | 11,500.00 |
| Washington Aqueduct..... | 20,000.00 | 20,000.00 | 20,000.00 |
| Redemption of certificates of indebtedness..... | | | |
| Sewer debt..... | | | |
| Total..... | 29,200.00 | 30,200.00 | 31,500.00 |
| <i>Reformatories and prisons.</i> | | | |
| Washington Asylum..... | 45,000.00 | 45,100.00 | 38,200.00 |
| Reform School..... | 20,000.00 | 20,000.00 | 25,000.00 |
| Georgetown almshouse..... | 1,800.00 | 1,800.00 | 1,800.00 |
| Transportation of paupers, etc..... | 2,500.00 | 2,500.00 | 2,500.00 |
| Industrial Home School..... | | 5,000.00 | |
| Total reformatories and prisons..... | 69,300.00 | 74,460.00 | 67,500.00 |
| Support of indigent insane..... | 17,000.00 | 17,000.00 | 20,484.80 |
| <i>Charities.</i> | | | |
| Relief of the poor, night lodging, etc..... | 15,000.00 | 15,000.00 | 15,000.00 |
| Columbia Hospital for Women..... | | 12,000.00 | |
| Women's Christian Association..... | | 5,000.00 | |
| Association for Destitute Colored Women and Children..... | | 6,500.00 | |
| Association for Destitute Colored Women and Children (building)..... | | | |
| Children's Hospital..... | | 5,000.00 | |
| Little Sisters of the Poor..... | | | |
| German Orphan Asylum..... | | | |
| Howard University..... | | 10,000.00 | |
| St. Ann's Infant Asylum..... | | 5,000.00 | |
| Church Orphanage..... | | | |
| Homeopathic Hospital..... | | | |
| St. Rose Industry School (buildings)..... | | | |
| House of Good Shepherd (buildings)..... | | | |
| Association for Works of Mercy (buildings)..... | | | |
| Washington Hospital for Foundlings..... | | | |
| National Temperance Home..... | | | |
| Emergency Hospital..... | | | |
| Total for charities..... | 15,000.00 | 58,500.00 | 15,000.00 |

* Eighty-five thousand dollars not expended.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 307

1880 to 1889, and estimates for 1890 for the District of Columbia.

| 1881. | 1882. | | 1883. | | 1884. | |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. |
| \$22,140.00 | \$22,140.00 | \$22,140.00 | \$23,314.04 | \$21,200.11 | \$21,600.11 | \$21,101.50 |
| 27,290.00 | 27,000.00 | 17,500.00 | 23,000.00 | 17,500.00 | 19,400.00 | 12,600.00 |
| 11,500.00 | 13,900.00 | 10,000.00 | 13,500.00 | 13,000.00 | 13,500.00 | 17,300.00 |
| 13,000.00 | 12,800.00 | 12,800.00 | 12,900.00 | 12,900.00 | 12,750.00 | 15,200.00 |
| 9,000.00 | 9,000.00 | 8,812.00 | 9,000.00 | 8,812.00 | 8,812.00 | 8,812.00 |
| 2,700.00 | 2,700.00 | 2,700.00 | 3,700.00 | 2,700.00 | 2,700.00 | 2,700.00 |
| 2,450.00 | 2,800.00 | 2,500.00 | 2,500.00 | 2,500.00 | 2,500.00 | 2,500.00 |
| 72,306.00 | 68,925.00 | 68,625.00 | 69,675.00 | 67,225.00 | 69,688.00 | 61,550.00 |
| 3,500.00 | 3,500.00 | 3,500.00 | 3,500.00 | 3,500.00 | 3,500.00 | 5,000.00 |
| 166,796.00 | 162,765.00 | 148,577.00 | 161,089.04 | 149,337.11 | 154,450.11 | 146,763.50 |
| 75,000.00 | 75,000.00 | 50,000.00 | 50,000.00 | 50,000.00 | 50,000.00 | 50,000.00 |
| 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 35,000.00 | 30,000.00 |
| 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 |
| 161,600.00 | 132,000.00 | 72,000.00 | 155,000.00 | 105,000.00 | 98,000.00 | 95,000.00 |
| 300,000.00 | 320,364.03 | 300,000.00 | 273,000.00 | 300,000.00 | 315,685.61 | 350,000.00 |
| 561,600.00 | 552,364.03 | 447,000.00 | 503,000.00 | 480,000.00 | 503,685.61 | 530,000.00 |
| 11,500.00 | 2,500.00 | 2,500.00 | 12,700.00 | 12,700.00 | 3,500.00 | 3,500.00 |
| 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 |
| 31,500.00 | 22,500.00 | 22,500.00 | 32,700.00 | 32,700.00 | 23,500.00 | 23,500.00 |
| 48,040.00 | 53,200.00 | 49,140.00 | 54,640.00 | 46,820.00 | 52,364.00 | 46,320.00 |
| 25,000.00 | 25,000.00 | 31,614.00 | 38,674.00 | 37,950.00 | 36,700.00 | 32,950.00 |
| 1,800.00 | 1,800.00 | 1,800.00 | 1,800.00 | 1,800.00 | 1,800.00 | 1,800.00 |
| 3,500.00 | 3,500.00 | 3,000.00 | 3,500.00 | 3,000.00 | 3,000.00 | 3,000.00 |
| 10,000.00 | 5,000.00 | 10,500.00 | 5,000.00 | 5,000.00 | 5,000.00 | 10,000.00 |
| 88,340.00 | 88,500.00 | 96,054.00 | 103,614.00 | 94,570.00 | 98,864.00 | 94,070.00 |
| 37,000.00 | 37,000.00 | 40,000.00 | 40,000.00 | 43,200.00 | | 46,700.00 |
| 10,000.00 | 15,000.00 | 15,000.00 | 15,000.00 | 15,000.00 | 15,000.00 | 15,000.00 |
| 18,000.00 | 15,000.00 | 15,800.00 | 15,000.00 | 15,000.00 | 15,000.00 | 15,000.00 |
| 5,000.00 | | 5,000.00 | | 5,000.00 | | 5,000.00 |
| 6,500.00 | | 6,500.00 | | 6,500.00 | | 7,000.00 |
| 5,000.00 | 5,000.00 | 5,000.00 | | 5,000.00 | | 20,000.00 |
| 5,000.00 | | | | | | 5,000.00 |
| 10,000.00 | | | | 5,000.00 | | |
| 5,000.00 | 5,000.00 | 5,000.00 | | 5,000.00 | | 5,000.00 |
| | | | | | | 1,500.00 |
| 64,500.00 | 40,000.00 | 52,300.00 | 30,000.00 | 56,500.00 | 30,000.00 | 73,500.00 |

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C 3.—*Tabulated statement showing estimates and appropriations from 1880*

| | 1880. | | 1881. |
|--|--------------|---------------|--------------|
| | Estimated. | Appropriated. | Estimated. |
| <i>For streets.</i> | | | |
| Sweeping, cleaning, etc., streets, avenues, and alleys. | \$42,600.00 | \$42,600.00 | \$43,600.00 |
| Current repair of streets, avenues, and alleys*..... | 75,500.00 | 75,500.00 | 105,000.00 |
| Constructing county roads and suburban streets..... | | | |
| Current work on country roads, etc.†..... | | | |
| Cleaning sewers and basins†..... | | 10,000.00 | 3,000.00 |
| For preparation of plans for sewage disposal..... | | | |
| For replacing obstructed sewers..... | | | |
| For constructing suburban sewers..... | | | |
| Repairs to pumps..... | 2,500.00 | 2,500.00 | 3,000.00 |
| Parking commission..... | 13,400.00 | 13,400.00 | 13,400.00 |
| Lighting streets, avenues, and alleys..... | 140,000.00 | 130,370.00 | 123,470.00 |
| Opening and extending suburban streets..... | | | |
| Total streets..... | 274,000.00 | 274,370.00 | 291,470.00 |
| Metropolitan police..... | 300,000.00 | 305,240.00 | 300,000.00 |
| Fire department..... | 115,000.00 | 105,700.00 | 105,000.00 |
| Telegraph and telephone service..... | | | |
| Courts..... | 18,500.00 | 18,500.00 | 18,938.00 |
| Courts, police magistrates..... | | | |
| Total..... | 433,500.00 | 429,440.00 | 423,938.00 |
| <i>For public schools.</i> | | | |
| For tools and machinery for industrial instruction..... | | | |
| For officers..... | 311,412.63 | 311,412.63 | 308,000.00 |
| For teachers..... | | | |
| For eight supervising principals..... | | | |
| For night schools..... | | | |
| For contingent expenses, night schools..... | | | |
| For janitors, care of building..... | | | |
| For rent of school buildings..... | 30,000.00 | 30,000.00 | 35,000.00 |
| For fuel..... | 12,000.00 | 12,000.00 | 12,000.00 |
| For repairs and improvements..... | 25,000.00 | 25,000.00 | 20,000.00 |
| For contingent expenses, furniture, etc. \|\|..... | 21,587.37 | 21,587.37 | 20,000.00 |
| For purchase of sites, new buildings, and furniture..... | | 75,000.00 | |
| For sanitary improvements in old buildings..... | | | |
| Total public schools..... | 400,000.00 | 475,000.00 | 400,000.00 |
| <i>Miscellaneous expenses.</i> | | | |
| Repairs and replacement of hay scales..... | 200.00 | 200.00 | 200.00 |
| Rent of District offices..... | 6,000.00 | 6,000.00 | 3,600.00 |
| General advertising..... | 7,000.00 | 7,000.00 | 7,000.00 |
| Books for register of wills, printing, etc..... | 6,500.00 | 6,500.00 | 6,798.07 |
| Total miscellaneous..... | 19,700.00 | 19,700.00 | 17,598.07 |
| Interest and sinking fund..... | 1,216,124.12 | 1,155,583.55 | 1,155,583.55 |
| General contingent fund for emergencies..... | | 20,000.00 | 50,000.00 |
| Municipal buildings..... | | | |
| For the payment of judgments against District of Columbia..... | | | |
| Health department..... | 32,355.00 | 34,755.00 | 36,548.34 |
| Total..... | 1,248,479.12 | 1,210,338.55 | 1,242,131.89 |
| Rent of market site and property yard..... | | | |
| Revision of laws..... | | 1,175.00 | |
| Purchase of police-court building..... | | 5,000.00 | |
| Removal of bodies from Holmead Cemetery..... | | | |
| Condemnation of land for alleys, streets, and roads..... | | | |
| Payment of Linthicum loan (school)..... | | | |
| Repair of Georgetown market-house..... | | | |
| Payment of referees of Court of Claims, necessary expenses, etc..... | | | |
| Total..... | | 6,175.00 | |

* Includes macadam repairs whenever appropriated.

† Includes \$16,732 for land and improvement of Fourteenth street extended.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 309

to 1889, and estimates for 1890 for the District of Columbia—Continued.

| 1881. | 1882. | | 1883. | | 1884. | |
|--|---|---|---|---|--|---|
| Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. |
| \$43,600.00
85,000.00 | \$36,500.00
45,000.00 | \$36,500.00
25,000.00 | \$40,500.00
30,000.00 | \$40,500.00
30,000.00 | \$55,000.00
30,000.00 | \$47,500.00
25,000.00 |
| 3,000.00 | 25,000.00
43,000.00 | 20,000.00
25,000.00 | 41,732.00
28,000.00 | 31,000.00
28,000.00 | 25,000.00
23,000.00 | 20,000.00
23,000.00 |
| 3,000.00
13,400.00
123,400.00 | 3,000.00
18,000.00
124,900.00 | 3,000.00
18,000.00
111,325.00 | 3,500.00
18,000.00
108,150.00 | 3,000.00
18,000.00
107,650.00 | 3,500.00
18,000.00
108,250.00 | 3,000.00
18,000.00
95,380.00 |
| 271,400.00 | 295,400.00 | 238,825.00 | 269,882.00 | 258,150.00 | 262,750.00 | 231,880.00 |
| 300,120.00
104,240.00 | 299,085.00
105,240.00 | 299,025.00
105,240.00 | 311,416.00
104,640.00 | 301,980.00
99,140.00 | 307,020.00
103,040.00 | 301,560.00
101,060.00 |
| 18,818.00 | 16,818.00 | 16,818.00 | 18,730.00
15,418.00 | 17,000.00
15,418.00 | 13,190.00
15,418.00 | 12,440.00
15,418.00 |
| 423,178.00 | 421,143.00 | 421,083.00 | 450,204.00 | 433,538.00 | 433,668.00 | 430,478.00 |
| 327,834.80 | 6,900.00
314,335.00 | 6,950.00
311,860.00 | 6,950.00
334,685.00 | 7,000.00
335,825.00 | 7,250.00
366,750.00 | 7,050.00
349,125.00 |
| 30,000.00
12,000.00
15,000.00
20,000.00
100,000.00 | 26,265.00
30,000.00
12,000.00
15,000.00
20,000.00 | 22,170.00
23,000.00
11,000.00
10,000.00
15,000.00
182,630.47 | 24,656.00
22,000.00
15,000.00
32,000.00
15,000.00
100,000.00 | 25,000.00
15,200.00
15,000.00
15,000.00
15,000.00
178,868.00 | 26,600.00
\$75,000.00
80,000.00 | 23,500.00
8,000.00
18,000.00
27,000.00
15,000.00
96,000.00 |
| 504,834.80 | 424,560.00 | 582,610.47 | 550,291.00 | 606,893.00 | 555,600.00 | 543,675.00 |
| 200.00
3,600.00
7,000.00
6,798.07 | 500.00
3,600.00
7,000.00
5,000.00 | 500.00
3,600.00
5,000.00
3,000.00 | 500.00
3,600.00
5,000.00
3,000.00 | 500.00
3,600.00
5,000.00
3,000.00 | 500.00
3,600.00
5,000.00
3,000.00 | 500.00
3,600.00
4,000.00
2,500.00 |
| 17,598.07 | 16,100.00 | 12,100.00 | 12,100.00 | 12,100.00 | 12,100.00 | 10,600.00 |
| 1,155,583.55
20,000.00 | 1,213,947.97
27,000.00 | 1,213,947.97
15,000.00 | 1,213,947.97
17,000.00 | 1,213,947.97
10,000.00 | 1,213,947.97
10,000.00 | 1,213,947.97
10,000.00 |
| 2,704.20
35,565.00 | 6,000.00
44,200.00 | 15,000.00
41,140.00 | 25,000.00
41,140.00 | 25,000.00
42,580.00 | 36,000.00 | 42,780.00 |
| 1,213,852.75 | 1,291,147.97 | 1,285,087.97 | 1,297,087.97 | 1,291,527.97 | 1,259,947.97 | 1,266,727.97 |
| 20,000.00
2,000.00
27,497.73 | | 1,000.00
40,000.00
3,000.00
2,000.00 | | 1,000.00 | | |
| 49,497.73 | | 46,000.00 | | 1,000.00 | | |

† Includes \$10,000 for dredging James Creek Canal.
§ Includes fuel, furniture, stationery, repairs, etc.

C 3.—*Tabulated statement showing estimates and appropriations from 1880*

| | 1880. | | 1881. |
|---|------------|---------------|---------------|
| | Estimated. | Appropriated. | Appropriated. |
| <i>Water department.</i> | | | |
| Salaries and contingent expenses | | | |
| For engineers, firemen, pipe distribution, etc. | | | |
| Interest and sinking fund on water-stock bonds | | | |
| Interest and sinking fund on account of water supply .. | | | |
| Purchase of pump-house on U street northwest | | | |
| Water main to Anacostia, D. C. | | | |
| Water main to Mount Pleasant | | | |
| Water main on Fourteenth street, K north to B south .. | | | |
| Total water department | | | |
| For two pumping engines, etc | | | |
| For improvement and protection of harbor, etc | | | |
| For board of examiners of steam engineers | | | |

During the fiscal year 1884-'85, \$500,000 was appropriated towards completing the sewerage

to 1889, and estimates for 1890 for the District of Columbia—Continued.

| 1881. | 1882. | | 1883. | | 1884. | |
|---------------|------------|---------------|---------------|---------------|---------------|---------------|
| Appropriated. | Estimated. | Appropriated. | Estimated, | Appropriated. | Estimated. | Appropriated. |
| | | | | | | |
| | | | \$14, 139. 00 | \$11, 739. 00 | \$11, 842. 00 | \$11, 742. 00 |
| | | | 52, 301. 50 | 55, 101. 50 | 50, 000. 00 | 51, 251. 50 |
| | | | 44, 610. 00 | 44, 610. 00 | 44, 610. 00 | 44, 610. 00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | 111, 050. 50 | 111, 450. 50 | 106, 452. 00 | 107, 603. 50 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

system of the District of Columbia, but was not included in the regular appropriation bill.

312 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

C.—Tabulated statement showing estimates and appropriations from 1888

| | 1885. | | 1886. |
|---|---------------|---------------|---------------|
| | Estimated. | Appropriated. | Estimated. |
| <i>Salaries and contingent.</i> | | | |
| Executive office | \$21, 581. 50 | \$21, 244. 00 | \$21, 244. 00 |
| Markets | | | |
| Assessor's office | 13, 500. 00 | 13, 600. 00 | 13, 600. 00 |
| Collector's office | 17, 300. 00 | 17, 300. 00 | 17, 300. 00 |
| Auditor's office | 16, 500. 00 | 16, 643. 00 | 16, 500. 00 |
| Attorney's office | 8, 792. 00 | 8, 612. 00 | 8, 712. 00 |
| Sinking fund | 2, 700. 00 | 2, 700. 00 | 2, 700. 00 |
| Coroner's office | 2, 500. 00 | 2, 500. 00 | 2, 500. 00 |
| Engineer's office | 66, 650. 00 | 64, 750. 00 | 65, 490. 00 |
| Miscellaneous expenses, District offices | 5, 000. 00 | 5, 000. 00 | 5, 000. 00 |
| Expenses of assessment of real property | | | |
| Total salaries and contingent | 154, 523. 50 | 152, 349. 00 | 153, 046. 00 |
| <i>Improvements and repairs.</i> | | | |
| Repairs to concrete pavement | 50, 000. 00 | 50, 000. 00 | 50, 000. 00 |
| Material for permit work | 50, 000. 00 | 50, 000. 00 | 50, 000. 00 |
| Continuing surveys of the District | 5, 000. 00 | 5, 000. 00 | 5, 000. 00 |
| For sewers,* main pipe | 100, 000. 00 | 100, 000. 00 | 25, 000. 00 |
| Work on streets and avenues | 300, 000. 00 | 263, 000. 00 | 325, 000. 00 |
| Grading streets, alleys, and roads | | | |
| Total improvements and repairs | 505, 000. 00 | 468, 000. 00 | 455, 000. 00 |
| Constructing and maintaining and repairing bridges | 2, 500. 00 | 2, 500. 00 | 8, 000. 00 |
| Washington Aqueduct | 22, 000. 00 | 20, 000. 00 | 20, 000. 00 |
| Redemption of certificates of indebtedness | | | 50, 000. 00 |
| Sewer debt | | | |
| | 24, 500. 00 | 22, 500. 00 | 78, 000. 00 |
| <i>Reformatories and prisons.</i> | | | |
| Washington Asylum | 52, 735. 00 | 52, 310. 00 | 69, 680. 00 |
| Reform School | 32, 800. 00 | 32, 916. 00 | 36, 640. 00 |
| Georgetown almshouse | 1, 800. 00 | 1, 800. 00 | 1, 800. 00 |
| Transportation of paupers, etc | 3, 000. 00 | 3, 000. 00 | 4, 000. 00 |
| Industrial Home School | 15, 000. 00 | 12, 500. 00 | 13, 500. 00 |
| Total reformatories and prisons | 105, 335. 00 | 102, 526. 00 | 125, 620. 00 |
| Support of indigent insane | 46, 700. 00 | 50, 436. 00 | 51, 446. 00 |
| <i>Charities.</i> | | | |
| Relief of the poor, night lodging, etc | 15, 000. 00 | 15, 000. 00 | 15, 000. 00 |
| Columbia Hospital for Women | 15, 000. 00 | 15, 000. 00 | 15, 000. 00 |
| Women's Christian Association | | 5, 000. 00 | |
| Association for Destitute Colored Women and Children | | 7, 000. 00 | |
| Association for Destitute Colored Women and Children (building) | | | |
| Children's Hospital | | 2, 000. 00 | |
| Little Sisters of the Poor | | 5, 000. 00 | |
| German Orphan Asylum | | | |
| Howard University | | | |
| St. Ann's Infant Asylum | | | |
| Church Orphanage | | 5, 000. 00 | |
| Homeopathic Hospital | | 1, 500. 00 | |
| St. Rose Industrial School (buildings) | | | |
| House of Good Shepherd (buildings) | | | |
| Association for Works of Mercy (buildings) | | | |
| Washington Hospital for Foundlings | | | |
| National Temperance Home | | | |
| Emergency Hospital | | | |
| Total for charities | 30, 000. 00 | 55, 500. 00 | 30, 000. 00 |

* Eighty-five thousand dollars not expended.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 313

o 1889, and estimates for 1890, for the District of Columbia—Continued.

| 1886. | 1887. | | 1888. | | 1889. | | 1890. |
|---------------|-------------|---------------|-------------|---------------|--------------|---------------|--------------|
| Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. |
| \$21,244.00 | \$21,844.00 | \$22,444.00 | \$22,784.00 | \$22,944.00 | \$23,284.00 | \$43,064.00 | \$45,543.00 |
| 13,600.00 | 15,600.00 | 14,600.00 | 16,500.00 | 4,100.00 | 5,350.00 | 5,000.00 | 5,000.00 |
| 17,300.00 | 18,500.00 | 19,200.00 | 16,600.00 | 16,300.00 | 16,900.00 | 17,300.00 | 18,900.00 |
| 16,500.00 | 16,500.00 | 16,500.00 | 16,900.00 | 16,500.00 | 17,800.00 | 22,400.00 | 20,700.00 |
| 8,712.00 | 9,000.00 | 8,700.00 | 9,800.00 | 9,000.00 | 16,550.00 | 16,500.00 | 16,500.00 |
| 2,700.00 | 3,100.00 | 2,700.00 | 2,700.00 | 2,700.00 | 10,700.00 | 11,600.00 | 12,600.00 |
| 2,500.00 | 2,500.00 | 2,500.00 | 2,650.00 | 2,700.00 | 3,300.00 | 2,700.00 | 3,300.00 |
| 65,690.00 | 75,450.00 | 65,690.00 | 64,820.00 | 2,650.00 | 2,800.00 | 2,800.00 | 2,800.00 |
| 5,000.00 | 5,000.00 | 5,000.00 | 7,500.00 | 61,190.00 | 95,235.00 | 45,650.00 | 65,465.00 |
| 15,000.00 | | | | 6,700.00 | 7,000.00 | 7,000.00 | 8,000.00 |
| | | | | | | 15,000.00 | |
| 168,246.00 | 167,494.00 | 157,334.00 | 160,254.00 | 158,584.00 | 198,919.00 | 189,014.00 | 198,808.00 |
| | | | | | | | |
| 50,000.00 | 75,000.00 | 65,000.00 | 90,000.00 | 80,000.00 | 100,000.00 | 95,000.00 | 230,000.00 |
| 50,000.00 | 50,000.00 | 60,000.00 | 90,000.00 | 90,000.00 | 100,000.00 | 90,000.00 | 200,000.00 |
| 5,000.00 | 5,000.00 | 4,000.00 | 15,000.00 | 4,000.00 | 10,000.00 | 10,000.00 | 5,000.00 |
| 25,000.00 | 75,000.00 | 45,000.00 | 105,000.00 | 50,000.00 | 75,000.00 | 70,000.00 | 150,000.00 |
| 265,000.00 | 325,000.00 | 266,000.00 | 405,000.00 | 360,000.00 | 805,919.03 | 615,000.00 | 1,079,804.00 |
| | | | | | 10,000.00 | 15,000.00 | 15,000.00 |
| 395,000.00 | 530,000.00 | 440,000.00 | 705,000.00 | 574,000.00 | 1,100,919.03 | 895,000.00 | 1,679,804.00 |
| 9,380.00 | 7,000.00 | 12,660.00 | 13,500.00 | 12,000.00 | 27,000.00 | 17,000.00 | 15,900.00 |
| 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 |
| 366.96 | | | | | | | |
| 29,746.96 | 27,000.00 | 32,660.00 | 33,500.00 | 32,000.00 | 47,000.00 | 37,000.00 | 35,900.00 |
| | | | | | | | |
| 69,680.00 | 56,690.00 | 57,382.00 | 59,555.00 | 53,305.00 | 61,655.00 | 56,815.00 | 55,915.00 |
| 36,616.00 | 36,676.00 | 36,616.00 | 37,976.00 | 47,170.00 | 44,946.00 | 44,246.00 | 47,596.00 |
| 1,800.00 | 1,800.00 | 1,800.00 | 1,800.00 | | | | |
| 4,000.00 | 4,000.00 | 4,000.00 | 4,000.00 | 4,000.00 | 4,000.00 | 4,000.00 | 4,000.00 |
| 12,000.00 | 12,000.00 | 13,500.00 | 10,000.00 | 10,000.00 | | 11,500.00 | 11,000.00 |
| 124,096.00 | 111,166.00 | 113,298.00 | 133,331.00 | 114,475.00 | 110,601.00 | 116,561.00 | 118,511.00 |
| 53,462.00 | 53,462.00 | 75,132.00 | 75,132.00 | 75,132.00 | 79,185.00 | 79,185.00 | 85,000.00 |
| | | | | | | | |
| 15,000.00 | 15,000.00 | 15,000.00 | | 15,000.00 | 15,000.00 | 17,500.00 | 15,960.00 |
| 15,000.00 | 15,000.00 | 15,000.00 | | 15,000.00 | | 15,000.00 | |
| 5,000.00 | | 4,000.00 | | 4,000.00 | | 4,000.00 | |
| 6,500.00 | | 6,500.00 | | | | | |
| | | | | 7,000.00 | | 10,000.00 | |
| 18,000.00 | | 2,500.00 | | | | | |
| 5,000.00 | | 5,000.00 | | 5,000.00 | | 5,000.00 | |
| | | | | | | | |
| 5,000.00 | | 5,000.00 | | 6,000.00 | | 6,000.00 | |
| 1,500.00 | | 1,500.00 | | 7,500.00 | | 5,500.00 | |
| 15,000.00 | | 5,000.00 | | 2,000.00 | | 6,500.00 | |
| | | 5,000.00 | | 5,000.00 | | 5,000.00 | |
| | | 5,000.00 | | 3,000.00 | | | |
| | | 5,000.00 | | 3,600.00 | | 5,000.00 | |
| | | 3,500.00 | | 7,000.00 | | 12,600.00 | |
| | | | | | | 2,500.00 | |
| | | | | | | 12,250.00 | |
| 86,000.00 | 30,000.00 | 78,000.00 | | 80,100.00 | 15,000.00 | 106,850.00 | 15,960.00 |

314 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

C 3.—Tabulated statement showing estimates and appropriations from 1880

| | 1885. | | 1886. |
|---|--------------|---------------|--------------|
| | Estimated. | Appropriated. | Estimated. |
| <i>For streets.</i> | | | |
| Sweeping, cleaning, etc., avenues and alleys | \$50,000.00 | \$50,000.00 | \$55,000.00 |
| Current repair of streets, avenues, and alleys* | 25,000.00 | 25,000.00 | 25,000.00 |
| Constructing county roads and suburban streets | | | |
| Current work on county roads, etc. † | 35,000.00 | 25,000.00 | 40,000.00 |
| Cleaning sewers and basins † | 28,000.00 | 25,000.00 | 25,000.00 |
| For preparation of plans for sewage disposal | | | |
| For replacing obstructed sewers | | | |
| For constructing suburban sewers | | | |
| Repairs to pumps | 2,000.00 | 3,000.00 | 3,000.00 |
| Parking commission | 18,000.00 | 18,000.00 | 18,000.00 |
| Lighting streets, avenues, and alleys | 109,000.00 | 95,380.00 | 100,000.00 |
| Opening and extending suburban streets | | | |
| Total streets | 267,000.00 | 241,380.00 | 266,000.00 |
| Metropolitan police | 331,000.00 | 337,100.00 | 351,200.00 |
| Fire department | 116,440.00 | 119,230.00 | 112,300.00 |
| Telegraph and telephone service | 20,440.00 | 25,440.00 | 15,440.00 |
| Courts | 16,218.00 | 16,218.00 | 16,218.00 |
| Courts, police magistrates | | | |
| | 484,098.00 | 497,988.00 | 495,238.00 |
| <i>For public schools.</i> | | | |
| For tools and machinery for industrial instruction | | | |
| For officers | 7,250.00 | 7,250.00 | 7,250.00 |
| For teachers | 371,850.00 | 371,850.00 | 385,000.00 |
| For eight supervising principals | | | |
| For night schools | | | |
| For contingent expenses, night schools | | | |
| For janitors, care of building | 27,780.00 | 28,780.00 | 31,000.00 |
| For rent of school buildings | 6,460.00 | 6,460.00 | 7,000.00 |
| For fuel | 20,000.00 | 18,000.00 | 20,000.00 |
| For repairs and improvements | 25,000.00 | 20,000.00 | 20,000.00 |
| For contingent expenses, furniture, etc. † | 20,000.00 | 20,000.00 | 20,000.00 |
| For purchase of sites, new buildings, and furniture | 66,000.00 | 69,500.00 | 60,000.00 |
| For sanitary improvements in old buildings | | | |
| Total public schools | 544,340.00 | 541,840.00 | 550,250.00 |
| <i>Miscellaneous expenses.</i> | | | |
| Repairs and replacement of hay scales | 500.00 | 500.00 | 500.00 |
| Rent of District offices | 3,600.00 | 3,600.00 | 3,600.00 |
| General advertising | 4,000.00 | 4,000.00 | 4,000.00 |
| Books for register of wills, printing, etc | 2,500.00 | 2,500.00 | 2,500.00 |
| Total miscellaneous | 10,600.00 | 10,600.00 | 10,600.00 |
| Interest and sinking fund | 1,213,947.97 | 1,213,947.97 | 1,213,947.97 |
| General contingent fund for emergencies | 10,000.00 | 5,000.00 | 5,000.00 |
| Municipal buildings | | | |
| For the payment of judgments against District of Columbia | | | |
| Health department | 42,980.00 | 44,180.00 | 36,400.00 |
| Total | 1,266,927.97 | 1,263,127.97 | 1,255,347.97 |
| Rent of market site and property yard | | | |
| Revision of laws | | | |
| Purchase of police-court building | | | |
| Removal of bodies from Holmead Cemetery | | | |
| Condemnation of land for alleys, streets, and roads | | | |
| Payment of Linthicum loan (school) | | | |
| Repair of Georgetown market-house | | | |
| Payment of referees of Court of Claims, necessary expenses, etc. | | | |
| Total | | | |

* Includes macadam repairs whenever appropriated.

† Includes \$16,732 for land and improvement of Fourteenth street extended.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 315

to 1889, and estimates for 1890 for the District of Columbia—Continued.

| 1886. | 1887. | | 1888. | | 1889. | | 1890. |
|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. |
| \$55,000.00 | \$60,000.00 | \$58,000.00 | \$70,000.00 | \$65,000.00 | \$85,000.00 | \$77,000.00 | \$100,000.00 |
| 25,000.00 | 30,000.00 | 25,000.00 | 35,000.00 | 30,000.00 | 50,000.00 | 35,000.00 | 50,000.00 |
| | | | | 50,000.00 | 78,000.00 | 88,980.00 | 198,000.00 |
| 40,000.00 | 45,000.00 | 40,000.00 | 50,000.00 | 25,000.00 | 54,000.00 | 45,000.00 | 60,000.00 |
| 25,000.00 | 30,000.00 | 25,000.00 | 35,000.00 | 30,000.00 | 35,000.00 | 30,000.00 | 35,000.00 |
| | | | | | 5,000.00 | 5,000.00 | |
| | | | | 7,500.00 | 15,000.00 | 10,000.00 | 20,000.00 |
| | | | | 35,000.00 | 35,000.00 | 35,000.00 | 70,000.00 |
| 3,000.00 | 3,000.00 | 3,000.00 | 3,000.00 | 3,000.00 | 5,000.00 | 4,000.00 | 4,000.00 |
| 18,000.00 | 20,000.00 | 18,000.00 | 25,000.00 | 18,000.00 | 23,000.00 | 18,000.00 | 25,000.00 |
| 100,000.00 | 105,000.00 | 100,000.00 | 120,000.00 | 120,000.00 | 140,000.00 | 135,000.00 | 160,000.00 |
| | | 30,000.00 | 60,000.00 | | | | |
| 266,000.00 | 293,000.00 | 299,000.00 | 398,000.00 | 338,500.00 | 525,000.00 | 482,980.00 | 722,000.00 |
| 339,720.00 | 357,500.00 | 344,780.00 | 417,280.00 | 350,560.00 | 503,860.00 | 406,540.00 | 413,900.00 |
| 108,150.00 | 115,950.00 | 116,420.00 | 114,420.00 | 109,920.00 | 175,050.00 | 141,200.00 | 136,890.00 |
| 18,040.00 | 15,840.00 | 15,840.00 | 28,060.00 | 23,340.00 | 43,520.00 | 17,800.00 | 21,800.00 |
| 16,218.00 | 16,218.00 | 16,218.00 | 20,074.00 | 13,724.00 | 16,218.00 | 16,518.00 | 19,418.00 |
| | | | | | 12,000.00 | | |
| 482,128.00 | 505,508.00 | 493,258.00 | 579,834.00 | 497,544.00 | 750,648.00 | 582,058.00 | 592,008.00 |
| | | | | | | | |
| | | | 5,000.00 | 5,000.00 | 10,000.00 | 8,000.00 | 12,000.00 |
| 7,250.00 | 7,250.00 | 6,950.00 | 7,500.00 | 6,950.00 | 7,750.00 | 7,450.00 | 7,750.00 |
| 390,000.00 | 400,000.00 | 415,400.00 | 432,675.00 | 438,270.00 | 464,310.00 | 466,810.00 | 510,325.00 |
| | | | 16,000.00 | | | | |
| | | 2,500.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 |
| | | | 500.00 | 300.00 | 500.00 | 500.00 | 500.00 |
| 30,680.00 | 31,848.00 | 31,900.00 | 33,200.00 | 34,400.00 | 41,400.00 | 37,711.00 | 42,886.00 |
| 7,000.00 | 6,000.00 | 6,000.00 | 9,000.00 | 15,000.00 | 15,000.00 | 15,000.00 | 10,000.00 |
| 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 22,000.00 | 25,000.00 |
| 20,000.00 | 25,000.00 | 20,000.00 | 25,000.00 | 20,000.00 | 30,000.00 | 35,000.00 | 20,000.00 |
| 20,000.00 | 25,000.00 | 25,000.00 | 25,000.00 | 20,000.00 | 20,000.00 | 22,500.00 | 25,000.00 |
| 60,000.00 | 20,000.00 | 50,000.00 | 100,000.00 | 238,000.00 | 261,500.00 | 336,000.00 | 306,000.00 |
| | | | 15,000.00 | 10,000.00 | 5,000.00 | 3,000.00 | |
| 554,930.00 | 535,098.00 | 577,750.00 | 693,875.00 | 812,920.00 | 880,460.00 | 958,971.00 | 964,461.00 |
| | | | | | | | |
| | | | | | | | |
| 500.00 | 500.00 | 500.00 | 750.00 | 500.00 | 500.00 | 250.00 | 250.00 |
| 3,600.00 | 3,600.00 | 3,600.00 | 10,000.00 | 3,600.00 | 4,000.00 | 3,600.00 | 4,000.00 |
| 4,000.00 | 3,000.00 | 3,000.00 | 3,000.00 | 3,000.00 | 3,000.00 | 3,000.00 | 3,000.00 |
| 2,500.00 | 2,500.00 | 2,500.00 | 2,500.00 | 1,500.00 | 1,200.00 | 1,200.00 | 1,200.00 |
| 10,600.00 | 9,600.00 | 9,600.00 | 21,250.00 | 8,600.00 | 8,700.00 | 8,050.00 | 8,450.00 |
| 1,213,947.97 | 1,213,947.97 | 1,213,947.97 | 1,213,947.97 | 1,213,947.97 | 1,213,947.97 | 1,213,947.97 | 1,213,947.97 |
| 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 | 5,000.00 |
| | 120,500.00 | | | | | | |
| | | | | | | | |
| 44,130.00 | 46,400.00 | 42,280.00 | 44,570.00 | 42,580.00 | 43,410.00 | 43,310.00 | 48,060.00 |
| 1,263,077.97 | 1,390,347.97 | 1,261,227.97 | 1,263,517.97 | 1,261,527.97 | 1,262,357.97 | 1,262,257.97 | 1,267,007.97 |
| | | | | | | 800.00 | 1,000.00 |
| | | | | | | | |
| | | | | | 10,000.00 | 10,000.00 | 20,000.00 |
| | | | | | | | |
| | | | | 2,500.00 | 2,500.00 | 2,500.00 | |
| | | | | 2,500.00 | 12,500.00 | 13,300.00 | 21,000.00 |

† Includes \$10,000 for dredging James Creek Canal.

§ Includes fuel, furniture, stationery, repairs, etc.

C.—Tabulated statement showing estimates and appropriations from 1880

| | 1885. | | 1886. |
|--|---------------|---------------|---------------|
| | Estimated | Appropriated. | Estimated. |
| <i>Water department.</i> | | | |
| Salaries and contingent expenses | \$11, 742. 00 | \$11, 739. 00 | \$11, 739. 00 |
| For engineers, firemen, pipedistribution, etc..... | 130, 000. 00 | 100, 000. 00 | 78, 000. 00 |
| Interest and sinking fund on water-stock bonds | 44, 610. 00 | 44, 610. 00 | 44, 610. 00 |
| Interest and sinking fund on account of water supply | | 130, 000. 00 | 55, 047. 27 |
| Purchase of pump-house on U street northwest | | | |
| Water main to Anacostia, D. C..... | | | |
| Water main to Mount Pleasant..... | | | |
| Water main on Fourteenth street, K north to B south..... | | | |
| Total water department | 186, 352. 00 | 186, 349. 00 | 189, 396. 27 |
| For two pumping engines, etc | | | |
| For improvement and protection of harbor, etc..... | | | |
| For board of examiners of steam engineers | | | |

During the fiscal year 1884-'85 \$500,000 was appropriated towards completing the sewerage

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to 1889, and estimates for 1890 for the District of Columbia—Continued.

| 1886. | 1887. | | 1888. | | 1889. | | 1890. |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. | Appropriated. | Estimated. |
| \$11,739.00 | \$16,634.00 | \$11,939.00 | \$18,936.00 | \$11,936.00 | \$23,100.00 | \$17,836.00 | \$19,600.00 |
| 78,000.00 | 65,000.00 | 75,000.00 | 125,000.00 | 100,000.00 | 100,000.00 | 130,000.00 | 86,500.00 |
| 44,610.00 | 44,610.00 | 44,610.00 | 44,610.00 | 44,610.00 | 44,610.00 | 44,610.00 | 44,610.00 |
| 55,047.27 | 57,239.02 | 57,239.02 | 76,655.69 | 76,655.69 | 86,962.35 | 86,962.35 | 86,415.64 |
| ..... | ..... | ..... | ..... | ..... | 2,275.00 | 2,275.00 | ..... |
| ..... | ..... | ..... | ..... | ..... | 2,500.00 | ..... | ..... |
| ..... | ..... | ..... | ..... | ..... | 7,500.00 | ..... | ..... |
| ..... | ..... | ..... | ..... | ..... | ..... | 31,000.00 | ..... |
| 189,396.27 | 183,483.02 | 188,788.02 | 265,201.69 | 233,201.69 | 266,947.35 | 312,683.35 | 237,125.64 |
| ..... | ..... | ..... | 35,000.00 | 35,000.00 | ..... | ..... | ..... |
| ..... | ..... | ..... | 10,000.00 | 2,500.00 | 8,700.00 | 2,500.00 | 2,500.00 |
| ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1,000.00 |

system of the District of Columbia, but was not included in the regular appropriation bill.

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D 1.—Schedule of streets recommended for improvement.

| Location. | Square yards. | Cost. |
|---|---------------|-------------|
| <i>General schedule.</i> | | |
| C street southeast and southwest from First to New Jersey avenue (pave) | 4,822 | \$13,400.00 |
| Maryland avenue northeast from Eleventh street to Boundary (pave)..... | 18,600 | 50,000.00 |
| Pennsylvania avenue southeast from Eleventh street to Bridge (G. and R.)... | 33,342 | 20,000.00 |
| Thirty-fifth street from Q to Tennalytown road (pave)..... | 11,500 | 37,500.00 |
| New Hampshire avenue from R street to Fifteenth (pave)..... | 1,400 | 46,750.00 |
| North Capitol street from I to K (pave)..... | 3,000 | 6,400.00 |
| B street northwest from Sixth to Seventh (pave)..... | 2,026 | 5,500.00 |
| New York avenue from New Jersey avenue to North Capitol street (pave) ... | 7,400 | 17,000.00 |
| Delaware avenue southwest from B street to G (G. and R.) | 15,300 | 19,000.00 |
| B street southeast from First to Second (widen and pave.) | 3,550 | 11,250.00 |
| Seventeenth street from Pennsylvania avenue to New York avenue (pave).... | 3,000 | 12,000.00 |
| Four-and-a-half-street from Missouri avenue to Maryland avenue (pave)..... | 4,950 | 14,850.00 |
| North Carolina avenue from Third street to Eighth (pave) | 10,820 | 24,350.00 |
| Total general schedule..... | | 278,000.00 |
| <i>Georgetown.</i> | | |
| Prospect street from High to Thirty-fifth (pave) | 6,000 | 15,000.00 |
| Thirty-fourth street from M to P (pave) | 3,600 | 9,500.00 |
| Thirty-fifth street from Prospect to N (pave)..... | 1,000 | 3,000.00 |
| Thirty-third street from M to N (pave)..... | 1,600 | 4,000.00 |
| Thirty-third street from P to High (pave)..... | 5,500 | 13,550.00 |
| Twenty-eighth street from P to Q (pave)..... | 1,450 | 4,000.00 |
| Twenty-ninth street from P to Q (pave)..... | 1,300 | 3,500.00 |
| Thirty-fourth street from P to High (G. and R.)..... | 8,000 | 11,000.00 |
| Q street from Thirty-fifth to High (pave)..... | 4,000 | 10,000.00 |
| O street from Twenty-eighth to Twenty-ninth (pave)..... | 1,000 | 3,000.00 |
| Total for Georgetown..... | | 76,550.00 |
| <i>Northwest.</i> | | |
| Fifth street from Q to Boundary (pave) | 5,212 | 15,100.00 |
| Twenty-second street from M to O (pave) | 4,425 | 14,650.00 |
| Twenty-fifth street from New Hampshire avenue to K street (G. and R.)..... | 4,000 | 6,000.00 |
| Twenty-fifth street from K to Pennsylvania avenue (pave)..... | 1,000 | 3,000.00 |
| F street from Twenty-fifth to Twenty-sixth street (G. and R.) | 1,465 | 3,500.00 |
| Q street from Fifth to Sixth (pave)..... | 750 | 2,000.00 |
| R street from Sixteenth to New Hampshire avenue (pave) | 3,560 | 9,875.00 |
| Eleventh street from O to Boundary (pave G. B.)..... | 7,700 | 27,000.00 |
| Twenty-first street from R to Boundary (pave)..... | 1,500 | 4,000.00 |
| L street from New Jersey avenue to North Capitol (pave)..... | 5,000 | 12,500.00 |
| N street from Fifth to New Jersey avenue (pave) | 3,200 | 8,050.00 |
| Twelfth street from S to Boundary (pave) | 9,300 | 23,250.00 |
| Seventeenth street from R to T (pave)..... | 4,000 | 11,000.00 |
| M street from New Jersey avenue to First street (pave)..... | 3,000 | 8,000.00 |
| S street from Sixteenth to New Hampshire avenue (pave)..... | 3,000 | 8,000.00 |
| Pierce street from New Jersey avenue to North Capitol (pave)..... | 5,500 | 13,500.00 |
| Sampson street from Fourteenth to Fifteenth (pave)..... | 1,750 | 5,000.00 |
| Madison street from M to N (pave)..... | 1,750 | 5,500.00 |
| Marion street from P to R (pave) | 3,220 | 8,600.00 |
| Washington street from Fourth to Fifth (pave)..... | 2,800 | 7,700.00 |
| Johnson street from R to S (pave) | 1,200 | 3,000.00 |
| Kingman street from P to Q (pave) | 1,500 | 4,000.00 |
| French street from Ninth to Tenth (pave)..... | 1,750 | 4,800.00 |
| Ridge street from Fourth to Fifth (pave) | 2,500 | 7,500.00 |
| Fourth street from New Jersey avenue to Boundary (pave) | 6,000 | 16,500.00 |
| Boundary street from Fourth to New Jersey avenue (pave)..... | 3,500 | 10,500.00 |
| Q street from New Jersey avenue to Third (pave)..... | 1,650 | 4,000.00 |
| R street from Seventh to Boundary (pave)..... | 7,000 | 19,250.00 |
| L street from Twenty-sixth to Twenty-seventh (pave)..... | 1,175 | 2,800.00 |
| First street from I to K (pave) | 1,250 | 3,500.00 |
| U street from Ninth to Tenth (pave) | 2,000 | 5,000.00 |
| Fourth street from New Jersey avenue to M (pave) | 2,180 | 7,080.00 |
| Four-and-a-half street from Pennsylvania avenue to D (pave)..... | 4,500 | 16,600.00 |
| I street from Twentieth to Twenty-third (pave) | 6,125 | 22,137.00 |
| Twenty-third street from I to Pennsylvania avenue (pave)..... | 1,408 | 4,882.00 |
| Twenty-fifth street from Pennsylvania avenue to M (pave) | 1,707 | 5,000.00 |
| Thirteenth street intersection of B street (north) | 780 | 1,725.00 |
| E street from Pennsylvania avenue to Fifteenth street (pave)..... | 3,000 | 7,500.00 |
| P street from Fourth to North Capitol (pave) | 7,000 | 15,750.00 |
| Total for northwest..... | | 357,749.00 |

D 1.—Schedule of streets recommended for improvement—Continued.

| Location. | Square yards. | Cost. |
|--|---------------|------------|
| <i>Southwest.</i> | | |
| H street from First to Third (pave) | 2,500 | \$6,875.00 |
| Ninth street from B to C (pave) | 1,500 | 4,125.00 |
| Canal street from C to E (south side, pave with G. B.) | 6,650 | 23,275.00 |
| G street from Half to South Capitol (south side, pave with G. B.) | 1,000 | 4,800.00 |
| L street from Four-and-a-half to Water (G. and R.) | 4,200 | 5,300.00 |
| K street from First to Eighth (G. and R.) | 10,500 | 13,200.00 |
| Second street from F to Delaware avenue (G. and R.) | 4,000 | 6,000.00 |
| Second street from Maryland avenue to F street (asphalt) | 8,500 | 21,250.00 |
| Thirteenth street from Maryland avenue to Water (pave with G. B.) | 2,025 | 7,000.00 |
| D street from South Capitol to First (pave) | 3,000 | 8,250.00 |
| Total for southwest | | 100,075.00 |
| <i>Northeast.</i> | | |
| Ninth street from Massachusetts avenue to Maryland avenue (G. and R.) | 6,000 | 7,500.00 |
| Ninth street from N to Maryland avenue (pave) | 5,500 | 14,000.00 |
| G street from North Capitol to First (pave) | 3,500 | 7,875.00 |
| Mrytle street from North Capitol to First (pave) | 2,000 | 5,000.00 |
| I street from North Capitol to First (pave) | 3,500 | 8,750.00 |
| K street from North Capitol to First (pave) | 4,450 | 10,500.00 |
| Twelfth street from Maryland avenue to Boundary (G. and R.) | 6,200 | 7,750.00 |
| D street from Massachusetts avenue to Maryland avenue (G. and R.) | 4,500 | 5,625.00 |
| Fifth street from C to D (pave) | 900 | 2,025.00 |
| Eighth street from Maryland avenue to B (pave) | 4,980 | 7,950.00 |
| H street (south side) from First to Boundary (pave) | 14,125 | 31,780.00 |
| A street from Seventh to Ninth (pave) | 3,156 | 7,100.00 |
| Third street from C to F (pave) | 3,750 | 10,850.00 |
| Eighth street from I to K (G. and R.) | 1,800 | 2,250.00 |
| I street from Sixth to Seventh (G. and R.) | 2,529 | 3,150.00 |
| Third street from H to L (pave) | 4,290 | 9,450.00 |
| Total for northeast | | 141,555.00 |
| <i>Southeast.</i> | | |
| C street from Sixth to Seventh (pave) | 2,150 | 6,530.00 |
| D street from Third to Sixth (pave) | 4,184 | 12,500.00 |
| Ninth street from East Capitol to I (G. and R.) | 13,725 | 16,250.00 |
| First street from C to D (pave) | 1,200 | 3,500.00 |
| C street from Seventh to Eleventh (G. and R.) | 3,600 | 4,500.00 |
| Tenth street from East Capitol to Pennsylvania avenue (G. and R.) | 7,500 | 9,400.00 |
| I street from Third to Eighth (G. and R.) | 5,700 | 8,000.00 |
| D street from First to Third (pave) | 4,000 | 9,000.00 |
| B street from North Carolina avenue to Eleventh (pave) | 5,000 | 13,750.00 |
| South Carolina avenue from Sixth to Seventh (pave) | 3,450 | 7,800.00 |
| Virginia avenue from Second to Third (G. and R.) | 3,000 | 3,750.00 |
| Third street from Virginia avenue to K (G. B. pave) | 2,000 | 6,500.00 |
| Seventh street from Virginia avenue to M (G. and R.) | 2,500 | 3,500.00 |
| Fourth street from Pennsylvania avenue to North Carolina avenue (pave) | 1,391 | 3,600.00 |
| Fifth street, crossing the square (pave) | 518 | 1,220.00 |
| D street (north side) from Pennsylvania avenue to Sixth street (pave) | 460 | 1,050.00 |
| C street from Fourth to Sixth (north side) (pave) | 1,685 | 4,200.00 |
| C street from Fourth to Sixth (south side) (pave) | 1,663 | 4,200.00 |
| G street from Eleventh to Pennsylvania avenue (pave) | 877 | 2,200.00 |
| South side of Lincoln square (curb, gutter, and sidewalk) | | 4,425.00 |
| Total for southeast | | 125,875.00 |

Summary of estimates by sections.

| Section. | Amount. | Percentage. |
|---------------------------|-----------|-------------|
| General schedule | \$278,000 | ..... |
| Georgetown schedule | 76,500 | 9.5 |
| Northwest schedule | 357,749 | 44.6 |
| Southwest schedule | 100,075 | 12.5 |
| Southeast schedule | 125,875 | 15.7 |
| Northeast schedule | 141,555 | 17.7 |
| | 1,079,804 | 100.0 |

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D 2.—Schedule of county roads and suburban streets recommended for improvement.

| | |
|---|----------|
| Fourth street east, extended to Bunker Hill road, grading, etc | \$10,000 |
| Roanoke and Irving streets, Seventh to Fourteenth, grading, etc..... | 10,000 |
| Kenesaw and Wallack streets, Seventh to Fourteenth, grading, etc | 5,000 |
| Jackson street, Anacostia, grade and regulate..... | 3,000 |
| Jefferson street, Anacostia, grade and regulate..... | 3,000 |
| Washington street, Anacostia, grade and regulate..... | 3,000 |
| Fourteenth street extended, complete paving to top of hill..... | 10,000 |
| First street west, Boundary to Michigan avenue..... | 5,000 |
| Eighteenth street extended | 5,000 |
| Sheridan street, from Seventh to Ninth, grade and regulate..... | 3,000 |
| Connecticut avenue extended..... | 5,000 |
| Brown street, sidewalks and graveling | 1,500 |
| Park street, sidewalk..... | 1,000 |
| Seventeenth street, from Park street to Piney Branch, grade and regulate.. | 1,000 |
| Adams and Taylor streets, grade and regulate from Harrison to Jefferson.... | 4,400 |
| Howard avenue..... | 1,000 |
| Lincoln avenue to Glenwood Cemetery..... | 15,000 |
| Rock Creek Church road..... | 5,000 |
| Bunker Hill road..... | 8,000 |
| Klingbe road..... | 4,000 |
| Woodley road..... | 5,000 |
| Mount Olivet road, Bladensburg to Patterson avenue..... | 2,000 |
| Brightwood avenue, widen and regulate..... | 5,000 |
| New Cut road..... | 4,000 |
| Nourse road..... | 2,000 |
| Columbia road, widening and regulating from Eighteenth street extended eastward | 10,000 |
| Canal road, from Free to Chain bridge..... | 13,000 |
| Naylor road..... | 3,500 |
| Pennsylvania avenue, extended to Bowen road..... | 25,000 |
| N street west, extended to junction Conduit and Foxhall roads..... | 15,000 |
| Eighth street, extended from Boundary to Grant avenue (pave)..... | 10,575 |
| | <hr/> |
| | 197,975 |

D 3.—EXTRACT FROM REPORT OF SUPERINTENDENT OF STREETS.

The following extracts from the report of the superintendent of streets, Mr. J. J. Burrows, cover points in detail not fully covered in my report, and are respectfully submitted :

From July 1 to December 31, seven public dumps were in use, and on the latter date the number was reduced to three. On February 4, 1888, the supervision of street and alley cleaning was transferred to the health officer, after which date but one public dump was under charge of this office. The location of the dumps were as follows: One in Olive street, between Twenty-eighth street and Rock Creek; one in Reservation 15 and 16; one in Twenty-second street, between M and Q streets northwest; one in Delaware avenue, between Canal and E streets southwest; one in Square No. 674; one in Square No. 617, and one in the vicinity of Van Ness Park, the latter being continued in this office.

CONSTRUCTION AND REPAIRS TO BRIDGES.

A new floor and wheel guards were laid on the roadways of the M street bridge across Rock Creek, and a new floor on the north roadway of the K street bridge across Rock Creek.

Two spans of the approach to the Aqueduct Bridge across the Potomac River were removed and the timber and lumber stored at the G street property yard.

Twenty-nine minor repairs were made to bridges during the year.

Total expenditure, \$1,209.92.

EMERGENCY FUND.

The appropriation for this fund was \$5,000.

The retaining-wall at the intersection of Potomac street and the Chesapeake and

Ohio Canal being in a dangerous condition and about to fall into the canal, was removed and rebuilt. The work done was as follows:

| | | |
|------------------------------|---------------|-----|
| Grading | cubic yards.. | 337 |
| Filling | do | 165 |
| Stone masonry laid | do | 131 |
| Brick masonry laid | cubic feet.. | 184 |
| Brick masonry repaired | do | 60 |
| Stone coping set | linear feet.. | 82 |
| Stairway rebuilt | | 1 |

Total expenditure, \$1,212.31.

CURRENT REPAIRS TO COUNTY ROADS AND SUBURBAN STREETS.

Under this appropriation repairs were made to the curbs, gutters, and sidewalks on Fourteenth street extended, from Boundary to Huntington Place, as follows:

| | | |
|------------------------------|----------------|-----|
| Brick sidewalk relaid | square yards.. | 575 |
| Cobble pavement relaid | do | 266 |
| Curb-stone set | linear feet.. | 638 |
| Flagging relaid | do | 108 |

Total expenditure, \$257.56.

IMPROVEMENT OF STREETS.

Improvement of streets in northwest section.—Under this appropriation the intersection of streets with New Jersey avenue, from M to Boundary street northwest, were adjusted to the grade of the new concrete pavement on New Jersey avenue.

Total expenditure, \$40.87.

Improvement of streets in Georgetown.—Thirty-first street was improved from Water street to the Chesapeake and Ohio Canal, as follows:

| | | |
|----------------------------------|----------------|-------|
| Flagging laid | linear feet.. | 1,160 |
| Brick pavement laid | square yards.. | 40 |
| Trap-rock pavement laid | do | 20 |
| Cobble-stone pavement laid | do | 1,711 |

Total expenditure, \$582.31.

Improvement of streets in the northeast section.—C street, from Sixth to Eleventh, was improved as follows:

| | | |
|-----------------------------|----------------|-------|
| Curb-stone set | linear feet.. | 2,388 |
| Curb-stone reset | do | 339 |
| Brick pavement laid | square yards.. | 2,388 |
| Brick pavement relaid | do | 191 |
| Grading | cubic yards.. | 400 |

Total expenditure, \$3,613.55.

SPRINKLING, SWEEPING, AND CLEANING STREETS, AVENUES, AND ALLEYS.

Under this appropriation various gutters, sidewalks, and roadways were cleaned aggregating 567,900 linear feet. The roadways of streets in the vicinity of the Capitol and Bureau of Engraving and Printing, where earth was being hauled from the new Library Building or to the Monument lot, were sprinkled, as was also the roadway of New York avenue during the races.

Total expenditure, \$3,560.42.

This work was transferred to the health officer on the 4th of February last.

PLUMBERS' CUTS.

One hundred and nineteen cuts were made by plumbers and others in granite-block and other pavements, and were repaired as follows:

| | | |
|-------------------------------------|----------------|-------|
| Granite block pavement relaid | square yards.. | 1,409 |
| Asphalt-block pavement relaid | do | 164 |

The cost of this work was paid from deposits made by plumbers and others, and amounted to \$1,128.74.

UNDERGROUND TELEGRAPH.

The standard telegraph cable was laid on the west side of Four-and-a-half street from Missouri avenue to Pennsylvania avenue northwest.

| | | |
|-------------------------------------|----------------|-----|
| Brick pavement relaid | square yards.. | 53 |
| Granite-block pavement relaid | do.... | 8 |
| Asphalt-block pavement relaid | do.... | 9 |
| Rubble pavement relaid | do.... | 26 |
| Asphalt pavement relaid | do.... | 49 |
| Cobble laid | linear feet.. | 670 |

The cost of this work amounted to \$160.21, and was paid from the appropriation for the contingent expenses of the telegraph department and fire-alarm service.

RECAPITULATION.

| | | |
|--|----------------|---------|
| Brick pavement laid | square yards.. | 23,341 |
| Cobble and rubble pavement laid | do.... | 27,773 |
| Granite-block pavement laid | do.... | 7,034 |
| Asphalt-block pavement laid | do.... | 21,392 |
| Asphalt tile pavement laid | do.... | 8,044 |
| Macadam pavement laid or repaired | do.... | 4,286 |
| Gravel roadway repaired | do.... | 30,218 |
| Curb-stone set or reset | linear feet.. | 23,088 |
| Flagging laid or relaid | do.... | 28,435 |
| Sewer-pipe laid or relaid | do.... | 85 |
| Gutter bridges built | | 3 |
| Flumes repaired | | 3 |
| Gutters, roadways, and sidewalks cleaned | linear feet.. | 792,488 |
| Stone masonry laid | cubic yards.. | 131 |
| Brick masonry laid | cubic feet.. | 244 |
| Coping set | | 82 |
| Stairways built | | 2 |
| Telegraph cable laid | linear feet.. | 670 |
| Grading | cubic yards.. | 15,388 |
| Minor repairs, dangerous holes, etc | | 695 |
| Total expenditure, \$114,133.58. | | |

D 4.—EXTRACT FROM REPORT OF SUPERINTENDENT OF ROADS.

The following extract from the report of Mr. George N. Beale, superintendent of county roads, gives the data concerning work done by his division:

Expenditures, repairing and constructing county roads, fiscal year 1887-'88.

| Name of road. | Appropriations. | | Total. |
|-------------------------|-----------------------------------|--|------------|
| | Repairs
county roads,
1888. | Constructing
county
roads, 1888. | |
| <i>Eastern section.</i> | | | |
| Anacostia | \$471. 41 | ..... | \$471. 41 |
| Benning's | 328. 75 | \$289. 85 | 618. 60 |
| Bowen | 132. 93 | ..... | 132. 93 |
| Central avenue | 6. 62 | ..... | 6. 62 |
| Fillmore street | 8. 00 | ..... | 8. 00 |
| Giesboro | 77. 41 | ..... | 77. 41 |
| Good Hope | 137. 54 | ..... | 137. 54 |
| Hamilton | 67. 71 | ..... | 67. 71 |
| Harrison street | 143. 35 | ..... | 143. 35 |
| Howardtown roads | 4. 88 | ..... | 4. 88 |
| Jackson street | 23. 37 | ..... | 23. 37 |
| Jefferson street | 57. 81 | ..... | 57. 81 |
| Livingston | 390. 61 | ..... | 390. 61 |
| Monroe street | 33. 36 | ..... | 33. 36 |
| Morris | 96. 37 | ..... | 96. 37 |
| Naylor | 165. 28 | ..... | 165. 28 |
| Nichols avenue | 1, 190. 30 | 1, 999. 98 | 3, 190. 28 |
| McLain (Ridge) | 158. 09 | ..... | 158. 09 |
| Sheridan avenue | 16. 40 | ..... | 16. 40 |

Expenditures, repairing and constructing county roads, etc.—Continued.

| Name of road. | Appropriations. | | Total. |
|-------------------------------------|----------------------------------|--|-------------|
| | Repairs
county roads
1888. | Constructing
county
roads, 1888. | |
| <i>Eastern section—Continued.</i> | | | |
| Sheriff..... | \$23. 75 | ..... | \$23. 75 |
| Stanton avenue..... | 52. 25 | ..... | 52. 25 |
| T street..... | 11. 40 | ..... | 11. 40 |
| Washington street (Anacostia)..... | 32. 68 | ..... | 32. 68 |
| Wheeler..... | 93. 29 | ..... | 93. 29 |
| Walker..... | 224. 07 | ..... | 224. 07 |
| Washington street (Lincoln)..... | 117. 00 | ..... | 117. 00 |
| Bowen street (Hillsdale)..... | 14. 00 | ..... | 14. 00 |
| Johnson street (Anacostia)..... | 16. 81 | ..... | 16. 81 |
| Miscellaneous labor..... | 537. 56 | \$786. 29 | 1, 323. 85 |
| Material, general use..... | 272. 29 | 1, 962. 36 | 2, 234. 65 |
| Blacksmithing..... | 36. 28 | ..... | 36. 28 |
| Totals..... | 4, 941. 57 | 5, 038. 48 | 9, 980. 05 |
| <i>Central section.</i> | | | |
| Argyle Mill..... | 14. 12 | ..... | 14. 12 |
| Benning's..... | 196. 11 | 12, 648. 59 | 12, 844. 70 |
| Blair..... | 73. 26 | ..... | 73. 26 |
| Bladensburgh..... | 37. 71 | 17, 366. 23 | 17, 403. 94 |
| Brentwood..... | 102. 42 | 250. 00 | 352. 42 |
| Bunker Hill..... | 93. 77 | ..... | 93. 77 |
| Columbia..... | 3, 288. 23 | *299. 87 | 3, 588. 10 |
| Fourteenth street road..... | 1, 295. 53 | ..... | 1, 295. 53 |
| Harewood..... | 59. 25 | ..... | 58. 25 |
| Lincoln avenue..... | 122. 17 | ..... | 122. 17 |
| Linnaen Hill..... | 33. 61 | ..... | 33. 61 |
| Military..... | 28. 00 | ..... | 28. 00 |
| Mount Olivet..... | 14. 25 | ..... | 14. 20 |
| Nineteenth street extension..... | 145. 60 | ..... | 145. 65 |
| Park street..... | 365. 49 | ..... | 365. 40 |
| Pomeroy street..... | 3. 40 | ..... | 3. 49 |
| Prospect street..... | 6. 65 | ..... | 6. 65 |
| Queen Chapel..... | 129. 04 | ..... | 129. 04 |
| Riggs..... | 20. 82 | ..... | 20. 82 |
| Rock Creek Church..... | 653. 25 | ..... | 663. 25 |
| Sandy Spring..... | 19. 50 | ..... | 19. 50 |
| Sargeant..... | 19. 00 | ..... | 19. 00 |
| Brightwood avenue..... | 4, 117. 23 | 41. 78 | 4, 159. 01 |
| Shepherd..... | 14. 45 | ..... | 14. 45 |
| Spring street..... | 55. 36 | ..... | 55. 36 |
| Thirteenth street extension..... | 44. 12 | ..... | 44. 12 |
| Whitney avenue..... | 9. 50 | ..... | 9. 50 |
| Woodley Lane..... | 1. 25 | ..... | 1. 25 |
| Miscellaneous labor..... | 803. 78 | 808. 19 | 1, 611. 97 |
| Material, general use..... | 367. 34 | 2, 025. 05 | 2, 392. 39 |
| Blacksmithing..... | 77. 40 | ..... | 77. 40 |
| Klingle road..... | 1, 430. 54 | ..... | 1, 430. 54 |
| Howard avenue..... | 87. 99 | ..... | 87. 99 |
| Centre street..... | 56. 61 | ..... | 56. 61 |
| Ontario avenue..... | 211. 30 | ..... | 211. 30 |
| Michigan avenue..... | 14. 25 | ..... | 14. 25 |
| North Capitol street extension..... | 33. 75 | ..... | 33. 75 |
| Piney Branch..... | 4. 37 | ..... | 4. 37 |
| Cool Spring..... | ..... | 111. 00 | 111. 00 |
| Totals..... | 14, 049. 42 | 33, 550. 71 | 47, 600. 13 |
| <i>Western section.</i> | | | |
| Brookville..... | 184. 89 | ..... | 184. 89 |
| Broad Branch..... | 292. 69 | ..... | 292. 69 |
| Canal..... | 31. 67 | 2, 330. 69 | 2, 362. 36 |
| Chain Bridge..... | 35. 62 | ..... | 35. 62 |
| Daniels..... | 21. 19 | ..... | 21. 19 |
| Foxhall..... | 5. 25 | ..... | 5. 25 |
| Grant..... | 240. 40 | ..... | 240. 40 |
| Klingle..... | 1, 393. 40 | ..... | 1, 393. 40 |
| Loughborough..... | 339. 17 | ..... | 339. 17 |
| Military..... | 121. 23 | ..... | 121. 23 |
| New Cut..... | 138. 35 | ..... | 138. 35 |
| Pierce Mill..... | 430. 83 | ..... | 430. 83 |
| Red Lane..... | 20. 62 | ..... | 20. 62 |
| Ridge..... | 22. 20 | ..... | 22. 20 |

* Bill not yet paid.

Expenditures, repairing and constructing county roads, etc.—Continued.

| Name of road. | Appropriations. | | Total. |
|----------------------------|-----------------------------------|--|-------------|
| | Repairs
county roads,
1888. | Constructing
county
roads, 1888. | |
| Western section—Continued. | | | |
| River..... | \$118. 06 | ..... | \$118. 06 |
| Rock Creek Ford..... | 47. 75 | ..... | 47. 75 |
| Tennallytown..... | 406. 11 | \$6, 340. 29 | 6, 746. 40 |
| Tunlaw..... | 478. 08 | ..... | 478. 08 |
| Woodley Lane..... | 128. 83 | ..... | 128. 83 |
| Old Chain Bridge..... | 37. 25 | ..... | 37. 25 |
| Belt Lane..... | 15. 25 | ..... | 15. 25 |
| Miscellaneous labor..... | 1, 093. 90 | 787. 98 | 1, 881. 88 |
| Material, general use..... | 271. 06 | 1, 923. 73 | 2, 194. 79 |
| Blacksmithing..... | 81. 53 | ..... | 81. 53 |
| Murdock's Mill road..... | 53. 03 | ..... | 53. 03 |
| Nourse avenue..... | ..... | 7. 50 | 7. 50 |
| Totals..... | 6, 008. 36 | 11, 390. 19 | 17, 398. 55 |

NOTE.—In the respective sections under the head of "Material, general use" (appropriation constructing county roads, etc., 1888), is included the following, one-third being charged to each section:

| | |
|--|--------------|
| 1 steam road-roller..... | \$4, 000. 00 |
| 1 engine for crushing stone..... | 635. 00 |
| 1 stone-crushing machine..... | 600. 00 |
| Outfit for field party (horse, wagon, harness, and level)..... | 490. 00 |
| Total..... | 5, 725. 00 |

Also of this appropriation the sum of \$250 charged to the Brentwood road was payment for a strip of land taken in 1872 from the "Mosher" estate for widening said road.

Under appropriation "Current repairs on county roads, etc., 1888," of the amount charged against "Tunlaw road," \$377.50 was paid the surveyor of the District of Columbia for establishing lines, and the sum of \$122.50 was paid him for like work on the "New Cut" road. The items entitled "Material, general use," include the sum of \$300 paid for engine for stone crusher purchased of P. Maloney, and \$150 for monument stones, for marking boundaries of various roads, and said amounts are equally divided between the three sections.

RECAPITULATION.

| | | |
|---|--|--------------|
| <i>Appropriation, current repairs county roads, etc., 1888.</i> | | |
| Eastern section..... | | \$4, 941. 57 |
| Central section..... | | 14, 049. 42 |
| Western section..... | | 6, 008. 36 |
| | | 24, 999. 35 |
| Amount of appropriation..... | | 25, 000. 00 |
| Expended..... | | 24, 999. 35 |
| Balance..... | | . 65 |
| <i>Appropriation, constructing country roads, etc., 1888.</i> | | |
| Eastern section..... | | 5, 038. 48 |
| Central section..... | | 33, 550. 71 |
| Western section..... | | 11, 390. 19 |
| | | 49, 979. 38 |
| Bill for Hopkins's Atlas (unpaid)..... | | 20. 00 |
| Total..... | | 49, 999. 38 |
| Amount of appropriation..... | | 50, 000. 00 |
| Expended..... | | 49, 999. 38 |
| Balance..... | | . 62 |

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Expenditures from appropriation construction and repair of bridges, 1888.

Eastern section :

| | | |
|-----------------------------------|----------|------------|
| Bridges on Walker road | \$9.75 | |
| Benning's road | 11.00 | |
| Good Hope road | 35.67 | |
| Gales and Highview avenues | 8.50 | |
| Sheridan avenue (Hillsdale) | 15.77 | |
| T street | 8.19 | |
| Jackson street | 10.06 | |
| Wheeler road | 29.04 | |
| Harrison street | 20.62 | |
| Sheriff road | 21.75 | |
| Morris road | 14.50 | |
| Nichols avenue | 5.50 | |
| Stanton avenue | 7.25 | |
| Suit road | 7.25 | |
| Fort Stanton road | 8.00 | |
| | 1,243.92 | |
| Benning's Bridge | | \$1,456.77 |

Western section :

| | | |
|--|----------|----------|
| Bridges on River road | 18.99 | |
| Argyle Mill road (foot) | 5.34 | |
| Chappell road | 7.18 | |
| Pierce Mill road | 3.96 | |
| Klingle road | 10.93 | |
| Argyle Mill road (over Broad Branch) | 1,122.60 | |
| | 1,482.30 | |
| Chain Bridge | | 2,651.30 |

Central section :

| | | |
|------------------------------------|----------|----------|
| Bridges on Queen Chapel road | \$91.99 | |
| Riggs road | 7.67 | |
| Woodley Lane bridge | 2.93 | |
| Sargeant road | 31.30 | |
| Bunker Hill road | 2.12 | |
| Brightwood avenue | 5.22 | |
| Brentwood road | 9.50 | |
| First street extended | 29.29 | |
| Michigan avenue | 2.25 | |
| Sandy Spring | 1.12 | |
| Montello (subdivision) | 96.88 | |
| Miscellaneous labor | 41.90 | |
| Military road | 90.50 | |
| Spring street | 2.75 | |
| Central avenue | 8.37 | |
| Benning's Bridge | 1,243.92 | |
| Unpaid bills | 4.42 | |
| | | 1,672.13 |

Total expenditures 5,780.20

Expenditures from appropriation ordinary care of bridges, 1888.

| | |
|---|--------|
| For salary of bridge-keeper at Chain Bridge | 660.00 |
| For repairing keeper's house | 40.63 |
| | 700.63 |
| Total | |

Appropriation sprinkling, sweeping, and cleaning streets, etc., 1888.

| | |
|---|--------|
| Expended in sprinkling Seventh and Fourteenth streets | 616.54 |
|---|--------|

Appropriation, current repairs, streets, avenues, and alleys, 1888.

| | |
|--|--------|
| Macadamizing Road street, Georgetown, between Thirty-first and Thirty-second streets | 950.32 |
|--|--------|

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Permit work.

| | | |
|---|----------|-----------------|
| Laying gutters on Woodley Lane road..... | | \$133.33 |
| Widening Columbia road (deposit of George Truesdell)..... | \$715.58 | |
| Widening Columbia road (deposit of L. Sands)..... | 699.64 | |
| | | <u>1,415.22</u> |
| Total..... | | 1,548.55 |

SUMMARY.

| | |
|---|------------------|
| Appropriation current repairs, county roads, etc., 1888..... | 24,999.35 |
| Appropriation constructing county roads, etc., 1888..... | 49,999.38 |
| Appropriation construction and repair of bridges, 1888..... | 5,780.20 |
| Appropriation ordinary care of bridges, 1888..... | 700.63 |
| Appropriation sprinkling, sweeping, and cleaning streets, etc., 1888..... | 616.54 |
| Appropriation current repairs streets, avenues, and alleys, 1888..... | 950.32 |
| Appropriation work under deposits of various parties..... | 1,548.55 |
| Total..... | <u>84,594.97</u> |

D 5.—EXTRACT FROM REPORT OF SUPERINTENDENT OF LAMPS.

The following extract from the report of Mr. W. H. Harrison, superintendent of lamps, is respectfully submitted herewith:

During the year the lamps were lighted 2,658 hours, unusually stormy weather during the winter and spring requiring 58 hours of extra lighting.

Your attention is respectfully called to the necessity of an increase in the number of hours of street lighting from 2,600 to 3,000 hours. During a large portion of the year the dense foliage of the shade trees renders the streets of the city very dark, particularly when the moon is relied on for light. If the increase of hours herein recommended is allowed, the streets could be lighted every night at a very small increase in the expense.

| | |
|--|------------|
| The number of lamps in service on July 1, 1887, was..... | 4,547 |
| Number lighted during year..... | 307 |
| Number relighted during year..... | 1 |
| Number discontinued during year..... | 145 |
| Number in service June 30, 1888..... | 4,710 |
| Number not in service June 30, 1888..... | 244 |
| Increase in number of lamps..... | <u>163</u> |

During the year there was deducted for non-illumination:

| | |
|--|---------------|
| From the bills of the Washington Gas-light Company..... | \$69.11 |
| From the bills of the Georgetown Gas-light Company..... | 21.40 |
| From the bills of the United States Electric Lighting Company..... | 508.10 |
| Total..... | <u>598.61</u> |

ELECTRIC LIGHT.

The system of electric lighting has been extended during the year as follows:

| | |
|--|------------|
| Number of electric lights in service July 1, 1887..... | 40 |
| Number of new lights put in service during the year..... | 65 |
| Number, June 30, 1888..... | <u>105</u> |

The company has made every effort to increase the efficiency of its service with gratifying success.

The number of hours the electric lights were burning during the year was 4,289. I recommend that the lights during the coming year be lighted according to schedules to be furnished by the engineer department, instead of burning from sunset to sunrise as at present. If a schedule of 3,600 hours be used, the lamps could be lighted forty-five minutes after sunset and extinguished one hour and fifteen minutes before sunrise, and the price per night could be correspondingly decreased and the number of lamps increased.

OIL LAMPS.

A large portion of the city is still unsupplied with gas mains, and consequently the streets of these sections remain unlighted. In many cities oil lamps are resorted to to temporarily remedy such evil, and I respectfully recommend that some one of the many systems of oil lamps be adopted for use in the sections of the city where gas mains have not yet been laid and in alleys and suburban roads, and to be replaced by gas lamps as the mains are extended. This is the plan followed in other cities, and it is said with good results.

Many lamps have been wantonly injured during the year by vicious persons, and more stringent regulations should be made for the arrest and severe punishment of such offenders.

No list of the 5,199 lamps heretofore erected has ever been kept in this office, and I respectfully recommend that an enumeration of this property be made during the present year, accurately locating them on the various streets, alleys, and roads of the District.

The gas companies have made every effort to increase the efficiency of their street-lighting service, and the condition of the lamps will compare favorably with those of any other city.

Attention is called to the practice of the telegraph companies planting their poles alongside the street lamps, often injuring them and seriously interfering with the service, and I recommend that the companies be required to notify the Engineer Commissioner of their intention to erect new poles, that this evil may be remedied.

D 6.—EXTRACT FROM REPORT OF PARKING COMMISSION.

The following extract from the report of the parking commission is respectfully submitted :

TREE BOXES.

In the report of last year mention was made of the desirability of removing the boxes from trees not requiring their support, but where they were maintained solely for purposes of protection against injuries, of which horses nibbling the stems was the chief. Since submitting that report, a substitute for the boxes, so far at least as preventing injury from horses, has been found in a light wire netting, which effectually answers the purpose. It is neater and more enduring than wooden boxes, furnishes the least possible amount of harbor for insects, admits of white washing the tree when such application becomes necessary, and its cost when placed on the tree is less than one-half of the price for the cheapest wooden box.

CATERPILLARS.

Notwithstanding the unusual number of caterpillars which infested the trees last year, very few have made their appearance this summer. This immunity was indicated by practical entomologists, and is in unison with the life history of most kinds of pestiferous insects.

RECOMMENDATIONS.

In regard to increasing the efficiency of this branch of the District government, we have the honor to remark that the appropriations annually allowed the parking commission of late years have been of the uniform amount of \$18,000.

The annual increase of the trees planted on the streets also increases the expenses for their care and keeping. Repairing tree boxes has, for many years past, been an expensive item. This can now be reduced to a minimum by using the protective wire netting, which can be placed round a tree for something less than one-half of the cost of a wooden box, saying nothing about its greater permanency. But, with the many other necessary expenditures, the amount of money which can be used for the purchase of wire is so limited in comparison with the extent of work to be done that many years must elapse before the wooden boxes can be replaced.

We therefore beg to suggest that, in addition to the usual appropriation, a sum not less than \$5,000 be appropriated for wire alone. This would permanently protect from 20,000 to 25,000 trees, varying according to the size of their stems.

There is an immense amount of work in sight in the matter of supplying fresh soil to some of the earlier planted trees which begin to show a want of nourishment.

Those in sidewalk parkings require that the soil at the extremities of their roots be dug and pulverized to a good depth, and those in holes where the pavements are contiguous to the curb-stones will need an extension of the holes, digging out and removing the poor soil and substituting with soil of better quality.

There are thousands of trees throughout the city which have soil pounded around their trunks so that water is prevented from reaching their roots. This accumulation results from dust which is blown from the streets and pavements, and its removal is a periodical necessity; but as it usually consists of good soil which is stored for future use, it pays for the cost of removal. As the street trees proper increase in growth they afford all the shade compatible with sanitary requirements and conditions; but in many parts of the city, where old trees have been allowed to remain in the parkings, and in some parts on the sidewalks where they form public obstructions, the shade produced is too dense, and the rays of the sun are altogether excluded from the walls of contiguous buildings, which, in the absence of fires in rooms, tends to create dampness and molds, conditions well known as a foundation for the contraction of ailments and diseases of epidemic tendencies.

It is therefore suggested that an order for the removal of all such superfluous trees be issued for the guidance of the parking commission.

For special details of work done and cost of the same we refer you to the accompanying report of Mr. T. Lanham, superintendent of parking, and we would further recommend that Mr. Lanham's salary be increased by \$200 per annum. His duties are widespread, arduous, and responsible, and this would be but an equitable and just recognition of his faithfully performed services, and we earnestly hope that it will meet with your approval.

D 7.—EXTRACT FROM REPORT OF THE SUPERINTENDENT OF THE PARKING COMMISSION.

The following extracts from the report of Trueman Lanham, superintendent for parking commission, gives detailed data as to work and expenditures:

In addition to the usual routine work of caring for trees and parkings, the following has also been performed, viz:

Excavations for young trees were made to the number of 2,382. Of this number, 53 on Indiana avenue, between First and Third streets, were not planted; therefore 2,329 trees were set out, an increase of 462 over the number of the preceding year.

Old, decayed, and dying trees were removed to the number 650.

Fifty-five trees were destroyed by the blizzard of March 11 to 14, inclusive, and many others were injured to some extent.

Twenty-two trees were destroyed by the storm of June 23, while the number broken must have exceeded 1,000. This disaster was confined chiefly to Georgetown and the northwestern section of the city.

Of the number removed and destroyed those that were in their proper places have been replaced by 304 young trees, thus making the total number planted during the year, on the streets, 2,633.

The chain-gang excavated eighty holes for trees at a school-house in the county, near the Insane Asylum.

The parking commission removed the dirt excavated, filled the holes with soil, and planted and boxed the trees.

There were also 400 young trees planted at Brookland, in the county, the owners of the land excavating the holes, filling them with soil, and furnishing the boxes.

The labor of planting and boxing was performed by your employes. Thus the total number of young trees set out under your instructions in the city and District during the last fiscal year was 3,113.

In compliance with your instructions no holes have been excavated less than 3 by 6 feet in size, and in many cases where deep cuts were made in grading streets and all plant-food removed, excavations as large as 4 by 8 feet were made. The dirt excavated was carted to the dump and the holes filled with good soil. But the dirt and the soil in many cases have to be carted long distances, and the double shoveling of the dirt, first out of the hole and then in the cart, makes this part of the work expensive.

Wooden boxes from large trees were removed to the number of 4,440; and from the soundest portion of this material and lumber on hand from the previous year 3,000 boxes have been made and used.

Wire netting has been placed around 4,636 trees to protect them from injury by horses.

Six thousand six hundred and ninety-seven trees were given a coat of lime wash, which I think has been very effectual in removing the scale from the bark of the trees.

At the close of the planting season just past, trees had been planted on all the streets which had the curb set in its proper place, except those streets which were considered by you too narrow for trees.

Amounts expended for labor (per pay-rolls).

| | |
|---|------------------|
| Mowing street parkings..... | \$662.75 |
| Planting and replanting trees..... | 951.43 |
| Digging tree holes..... | 3,606.18 |
| Pruning trees..... | 1,244.30 |
| Removing cocoons and caterpillars..... | 863.58 |
| Cultivating trees on streets..... | 1,781.88 |
| Staking, boxing, and strapping trees..... | 383.62 |
| Making tree-boxes..... | 243.96 |
| Paving around trees and tree holes..... | 497.37 |
| Removing old, decayed, and dying trees..... | 1,102.37 |
| Repairing damages caused by storms..... | 583.86 |
| Work at nursery..... | 783.06 |
| Placing woven wire around trees..... | 353.24 |
| Grading and sowing New York avenue parking..... | 261.25 |
| Preparing and sowing Indiana avenue parking..... | 34.00 |
| Removing tree-boxes..... | 282.62 |
| Assorting and piling old box lumber..... | 131.75 |
| Hauling manure to nursery..... | 126.50 |
| Grinding and sharpening tools..... | 28.37 |
| Improving parking on Canal street..... | 29.62 |
| Piling soil..... | 8.25 |
| Repairs to wagon body by laborer..... | 7.00 |
| Moving trees from center pavement to curb..... | 10.25 |
| Cleaning park front Center Market, Thirty-fifth street..... | 12.00 |
| Top-dressing South Capitol street parking with manure..... | 31.00 |
| Paving stalls in stable..... | 2.00 |
| Hauling wire from depot..... | 1.50 |
| Repairing roof of workshop..... | 8.00 |
| Cutting asphalt for tree holes, G street, northwest..... | 3.50 |
| Putting soil around trees..... | 7.50 |
| Laborer, watchman, and hostler at office..... | 541.50 |
| Amount expended for labor..... | <u>14,584.21</u> |

Amounts expended for material (per public bills).

| | |
|--|-----------------|
| Whitewashing trees (labor)..... | 245.73 |
| Whitewashing trees (material)..... | 27.94 |
| One new wagon..... | 150.00 |
| One new wagon..... | 45.00 |
| Repairing wagons..... | 62.75 |
| Forage (two horses for eight and one-half months)..... | 146.41 |
| Forage (one horse for three and one-half months)..... | 30.15 |
| Stationery and printing..... | 16.72 |
| Hardware..... | 273.72 |
| Soil (2,276 loads, at 10 cents)..... | 227.60 |
| Sharpening tools by blacksmith..... | 45.15 |
| Tree-box stakes (15,743)..... | 562.52 |
| Grass seed..... | 22.35 |
| Shoeing horses..... | 37.75 |
| Woven wire netting..... | 1,275.00 |
| Harness and net..... | 59.50 |
| Trees (<i>Salisburia adiantifolia</i>)..... | 30.00 |
| Straps..... | 96.00 |
| Two tons coal for office..... | 10.40 |
| Two gallons Neat's-foot oil..... | 1.80 |
| Prescription for horse..... | 1.20 |
| Piece of oak for wagon tongue..... | .72 |
| Lumber..... | 27.15 |
| Sponge for stable use..... | .46 |
| Coal oil..... | .32 |
| Forty-five cedar posts..... | 11.25 |
| Two bundles laths..... | .55 |
| Barrel tar..... | 3.92 |
| Amount expended for material..... | <u>3,412.06</u> |
| Total expenditure for labor and material..... | 17,996.27 |
| Amount of appropriation..... | 18,090.00 |
| Amount of appropriation not expended..... | 3.73 |

D 8.—SPECIFICATIONS FOR STANDARD PAVEMENTS AND STREET CONSTRUCTION MATERIAL.

SPECIFICATIONS FOR LAYING STREET PAVEMENTS.

Standard asphalt pavement.

The attention of bidders is invited to the clause of the appropriation bill which says:

"That under appropriations contained in this act, no contract shall be made for making or repairing concrete or asphalt pavement at a higher price than two dollars per square yard for a quality equal to the best laid in the District prior to July first, eighteen hundred and eighty-six, and with same depth of base."

(1) Standard asphalt pavement will be $2\frac{1}{2}$ inches in thickness when compacted, with a base of hydraulic cement concrete 6 inches in depth.

(2) The space over which the pavement is to be laid will be excavated to the depth of 9 inches below the top surface of the pavement when completed. Any objectionable or unsuitable material below the bed will be removed, and the space filled with clean gravel or sand well rammed. The bed will then be trimmed so as to be parallel to the surface of the pavement when completed, and the entire road-bed will be thoroughly rolled with a heavy steam-roller.

Upon this foundation will be laid a bed of hydraulic cement concrete 6 inches in thickness, to be made as follows:

One measure of hydraulic cement and two of clean, sharp, washed sand, free from clay, will be thoroughly mixed dry and made into a mortar with the least possible amount of water; broken stone of acceptable dimensions and character, thoroughly cleaned from dust and dirt, drenched with water, but containing no loose water in the heap, will be incorporated immediately with the mortar in such quantities as will give a surplus of mortar when rammed. This proportion, when ascertained, will be regulated by measure. Each batch of concrete will be thoroughly mixed, the mixing being continued on the board until each piece of stone or brick is completely coated with mortar; it will then be spread and at once thoroughly compacted by ramming until free mortar appears upon the surface. The whole operation of mixing and laying each batch will be performed as expeditiously as possible, with the use of a sufficient number of skilled men. No gravel will be used in the concrete, but only angular fragments of stone having rough faces obtained by fracture, and measuring not more than one and a half inches in their largest dimensions. The upper surface of the base will be made parallel with the crown of the pavement to be laid, and will be suitably protected from the action of the sun and wind until set. The cement used must conform to the current District of Columbia specifications.

(3) The wearing surface will be composed of—

First. Refined Trinidad or other acceptable asphaltum.

Second. Heavy petroleum residuum oil.

Third. Fine sand, containing not more than 5 per cent. of loam or clay.

Fourth. Fine stone-dust.

Fifth. Fine powder of carbonate of lime.

(4) The asphaltum must be refined and as far as possible freed from foreign organic and animal matter and volatile oil, and should contain at least 60 per cent. of bituminous matter soluble in bisulphide of carbon.

(5) The residuum oil must be free from coke and other impurities of a specific gravity of from 18° to 22° Baumé and withstand a fire test of 250° Fahrenheit.

(6) The refined asphaltum and residuum oil will be mixed in the following proportions by weight: With Trinidad asphalt—

| | |
|-----------------------|----------|
| Asphalt..... | Parts. |
| Petroleum, from | 100 |
| | 14 to 20 |

(7) The proportion of mixture for other asphalts will be determined by their chemical composition.

(8) The asphaltic cement, made in the manner above described, will be mixed with other materials in the following proportions by weight, viz:

| | |
|--|----------|
| Asphaltic cement, from | Parts. |
| Sand, from | 13 to 16 |
| Stone-dust, from | 63 to 58 |
| Pulverized carbonate of lime, from | 25 to 23 |
| | 3 to 5 |

(9) The proportion of materials used will depend upon their character and the traffic on the street, and will be determined by the Engineer Commissioner. If the proportions of the mixture are varied in any manner from those specified, the mixture

will be condemned; its use will not be permitted; and, if already placed on the street, it will be removed and replaced by proper material at the expense of the contractor.

(10) The mixture of sand, stone-dust, and the asphaltic cement will be heated separately to about 300° Fahrenheit. The pulverized carbonate of lime while cold will be mixed with the hot sand in the required proportions, and then mixed with the asphaltic cement, at the required temperature and in the proper proportion, in a suitable apparatus, so as to effect a thoroughly homogeneous mixture.

(11) The pavement mixture prepared in a manner thus indicated will be laid on the foundation in two coats. The first coat, called cushion coat, will contain from 1 to 2 per cent. more asphaltic cement than given above; it will be laid to such depth as will give a thickness of half an inch after being consolidated by a roller. The second coat, called surface coat, prepared as above specified, will be laid on the cushion coat; it will be brought to the ground in carts, at a temperature of not less than 250° Fahrenheit, and if the temperature of the air is less than 50°, the contractor must provide canvas covers for use in transit. It will then be carefully spread, by means of hot iron rakes, in such manner as to give uniform and regular grade, and to such depth that, after having received its ultimate compression of two-fifths, it will have a net thickness of 2 inches. This depth will be constantly tested by means of gauges furnished by the Engineer Commissioner. The surface will then be compressed by hand-rollers, after which a small amount of hydraulic cement will be swept over it, and it will then be thoroughly compressed by a steam-roller weighing not less than 250 pounds to the inch run, the rolling being continued for not less than five hours for every 1,000 yards of surface.

(12) All materials used, as well as the plant and methods of manufacture, will be subject to the inspection and approval of the Engineer Commissioner.

(13) The degree of fineness, both of sand, stone dust, and powdered limestone, will be determined by testing with screens, as follows: The powdered carbonate of lime will be of such degree of fineness that 16 per cent. by weight shall be an impalpable powder of limestone, and the whole of it shall pass a No. 26 screen. The sand will be of such size that not more than 50 per cent. of it will pass a No. 80 screen, and the whole of it shall pass a No. 20 screen. The broken stone or stone dust shall be the residue from the crushing of stone from the base and binder which passes a sieve of not more than 6 meshes to the inch.

(14) Gutters, wherever directed, will be granite block of such width as may be directed, laid upon a hydraulic base of not less than 4 inches in thickness, in accordance to specifications for granite-block pavement.

Coal tar distillate pavement.

(1) Coal-tar distillate pavement will consist of a base and binder of 4½ inches in depth when compacted, and a wearing surface of 1½ inches in thickness when compacted.

(2) The space over which the pavement is to be laid will be excavated to the depth of 6 inches below the top of the surface of the pavement when completed. Any objectionable or unsuitable material below the bed must be removed and the space filled with clean gravel or sand, well runned. The bed will then be trimmed so as to be exactly parallel to the surface of the new pavement when completed, and the entire road-bed will be thoroughly rolled with a heavy steam-roller.

Upon this foundation will be laid the base and binder, 4½ inches in thickness, in the following manner:

(3) *Base.*—The base will be composed of clean broken stone that will pass through a 3-inch ring, well rammed and rolled with a steam-roller to a depth of 4 inches, and thoroughly coated with No. 4½ coal-tar paving cement in the proportion of about 1 gallon to the square yard of base.

(4) *Binder.*—The second or binder course will be composed of clean broken stone, thoroughly screened, not exceeding 1½ inches in the largest dimension, and No. 4 coal-tar paving cement. The stone will be heated to a temperature between 230° and 250° Fahr. by passing through revolving heaters and thoroughly mixed by machinery, with the paving cement in about the proportion of 1 gallon of No. 4 tar to 1 cubic foot of stone. It will be hauled upon the work, spread upon the base course at least two inches thick, and immediately rammed and rolled with hand and steam rollers while in a hot, plastic condition.

(5) *Wearing surface.*—The wearing surface will be composed of the following materials, and in the following proportions:

| | Per cent. |
|--------------------------------|-----------|
| Clean, sharp sand..... | 63 to 58 |
| Broken stone or rock dust..... | 28 to 23 |
| Paving cement..... | 13 to 15 |
| Hydraulic cement..... | .9 |
| Slaked lime..... | .15 |
| Flour of sulphur..... | .1 |

(6) The sand shall be clean, sharp river sand, free from clay, and of such size that not more than 20 per cent. shall be retained upon a sieve of twenty meshes to the inch, and not more than 5 per cent. shall pass a sieve of seventy meshes to the inch, about 60 per cent. to be coarser than forty meshes to the inch.

(7) The broken stone or stone dust shall be the residue from the crushing of stone from the base and binder which passes a sieve of not more than six meshes to the inch.

(8) The paving cement shall be composed of refined Trinidad asphalt, 25 to 30 parts; No. 4 coal-tar paving cement, 75 to 70 parts. The refined asphalt must contain at least 60 per cent. of pure bituminous matter soluble in carbon bisulphide. The No. 4 coal-tar paving cement must correspond to a standard to be furnished by the Engineer Commissioner and be free from excess of sooty matter, naphthaline, and creosote oils as determined by the inspector of asphalt and cements.

(9) The hydraulic cement, lime, and sulphur must be of the best commercial quality.

(10) The materials for the wearing surface will be heated to not over 260° Fahr., the paving cement in kettles, the sand and stone dust in revolving heaters. To the latter the hydraulic cement, lime, and sulphur will be added cold in the sand-box before going to the mixer. They will be thoroughly mixed by approved machinery, and the mixture carried upon the work where it will be spread upon the binder course 2 inches thick with hot iron rakes and other suitable appliances, and immediately compacted with hot tamping-irons and hand and steam rollers, while in a hot and plastic state. In spreading the material the joints are to be diagonal to the line of the street. The surface will be furnished with a dusting of dry hydraulic cement rolled in. In cool weather, or when ordered, the carts carrying the mixture are to be protected with canvas covers.

(11) The pavement so constructed must be a solid mass 6 inches thick, and must be thoroughly rolled and cross-rolled until it has become hard and solid. It must be equal in every respect to the best pavement of this class which has been heretofore laid.

(12) The relative proportions of the component materials will be changed upon the order of the Engineer Commissioner, as occasion shall require.

(13) All materials used, as well as the plant and methods of manufacture, will be subject to the inspection and approval of the Engineer Commissioner.

(14) The degree of fineness both of sand, stone dust, and powdered limestone will be determined by testing with screens, as follows: The powdered carbonate of lime will be of such degree of fineness that 16 per cent. of weight shall be an impalpable powder of limestone, and the whole of it shall pass a No. 26 screen. The sand will be of such size that no more than 50 per cent. of it will pass a No. 80 screen, and the whole of it shall pass a No. 20 screen. The broken stone or stone dust shall be the residue from the crushing of stone from the base and binder which passes a sieve of not more than 6 meshes to the inch.

(15) Gutters, wherever directed, will be granite block of such width as may be directed, laid upon a hydraulic base of not less than 4 inches in thickness, in accordance to specifications for granite-block pavement.

New combination asphalt pavement on hydraulic base.

The new combination asphalt pavement on hydraulic base will be 7 inches in thickness, consisting of a base composed of 4 inches of hydraulic concrete and 2 inches of binder, 1½ inches when compacted, and a wearing surface of standard asphalt 2½ inches in thickness, or 1½ inches when compacted.

(2) The space over which the pavement is to be laid will be excavated to the depth of 7 inches below the top surface of the pavement when completed. Any objectionable or unsuitable matter below the bed will be removed, and the space filled with clean gravel or sand well rammed. The bed will then be trimmed so as to be parallel to the surface of the pavement when completed, and the entire road-bed will be thoroughly rolled with a heavy steam-roller.

Upon the bed thus prepared the pavement will be laid as follows:

(3) *Hydraulic base.*—This will be laid 4 inches in thickness, conforming in all other respects to the hydraulic base prescribed for the standard asphalt pavement as described in these specifications.

(4) *Binder course.*—This binder course will conform in all respects to the binder course prescribed for the coal-tar pavement, as described in these specifications; will be 1½ inches in thickness when compacted.

(5) *Wearing surface.*—The wearing surface will be 1½ inches thick when compacted, and will conform in all other respects to the wearing surfaces as prescribed for the standard asphalt pavement, as described in these specifications.

New combination asphalt pavement on bituminous base.

The new combination asphalt pavement on bituminous base will be 6 inches in thickness, consisting of a base of broken stone 4 inches thick laid in coal-tar paving

cement, a binder course 2 inches thick, $1\frac{1}{2}$ inches thick when compacted, the base and binder to be $4\frac{1}{2}$ inches thick when compacted, and a wearing surface of standard asphalt $1\frac{1}{2}$ inches thick when compacted.

(2) The space over which the pavement is to be laid will be excavated to the depth of 7 inches below the top surface of the pavement when completed. Any objectionable or unsuitable matter below the bed will be removed and the space filled with clean gravel or sand, well rammed. The bed will then be trimmed so as to be parallel to the surface of the pavement when completed, and the entire road-bed will be thoroughly rolled with a heavy steam-roller.

Upon the bed thus prepared the pavement will be laid as follows:

(3) *Bituminous base*.—This course will be laid 4 inches in thickness, conforming in all respects to the base course prescribed for the coal-tar pavement as described in these specifications.

(4) *Binder course*.—This binder course will conform in all respects to the binder course prescribed for the coal-tar pavement as described in these specifications; will be $1\frac{1}{2}$ inches in thickness when compacted.

(5) *Wearing surface*.—The wearing surface will be $1\frac{1}{2}$ inches thick when compacted, and will conform in all other respects to the wearing surfaces as prescribed for the standard asphalt pavement as described in these specifications.

Asphalt block pavement.

(1) The size of the blocks will be 4 by 5 by 12 inches, and a variation of one-fourth of an inch from these dimensions will be sufficient grounds for rejecting any block.

(2) The blocks will be composed of paving cement, 8 to 12, crushed limestone, 92 to 88.

The paving cement will be made from refined Trinidad or other acceptable asphaltum and heavy petroleum. The petroleum must be freed from all impurities and brought to a specific gravity of from 18° to 22° Baumé and a fire test of 250° Fahr. The right is reserved to inspect the manufacture of the blocks at any time.

All bids must be accompanied by a specimen block of the size and quality described in these specifications, labeled with the name of the bidder and the locality of the factory; bids not accompanied by specimen blocks will not be accepted. The blocks will be tested for specific gravity and tensile and crushing strength, and all blocks furnished will be subject to test and approval.

(3) The space over which the pavement is to be laid will be excavated to the depth of 12 inches below the top line of the proposed pavement, when fully rammed. Any objectionable or unsuitable material below the bed will be removed, and the space filled with clean gravel or sand. Care must be taken in excavating to preserve the proper crown. All holes and inequalities will be filled with sand or gravel, such filling to be thoroughly compacted by rolling or ramming.

(4) Upon this foundation, as above, is to be laid a bed of fine bank gravel, to be screened from all pebbles measuring more than $1\frac{1}{2}$ inches in their largest dimensions, 5 inches thick when compacted by rolling and ramming. Upon this will be laid a bed of fine, sharp sand, washed and dried, 2 inches in thickness, to serve as a bed for the blocks, which will be laid directly upon and embedded in it with close joints. Special care will be observed to make the surface of this bed of sand exactly parallel to the surface of the pavement when complete. The blocks must be laid by the pavers standing or kneeling upon the blocks already laid, and not upon the bed of sand.

(5) The blocks are to be laid diagonally with the line of the street or at right angles, and with such crown as the Engineer Commissioner may direct; each course to be of blocks of an uniform width and depth, and so laid that all longitudinal joints shall be broken by a lap of at least 4 inches. Each course of blocks will be driven against the course preceding it by a heavy maul, in order to make the lateral joints as tight as possible, and the longitudinal joints will be closed by pressing each course in the direction of its length by a lever. When thus laid the blocks will be immediately covered with clean, fine sand, entirely free from any loam or earthy matter, perfectly dry, and screened through a sieve or screen having not less than twenty meshes to the inch. The blocks will then be carefully rammed by placing a plank over several courses and ramming the plank with a heavy rammer. The ramming will be continued until the blocks reach a firm, unyielding bed and present a uniform surface, with proper grade and crown. Any lack of uniformity in the surface must be corrected by taking up and relaying the blocks. When the ramming is complete a sufficient amount of fine, dry sand, as above described, will be spread over the surface, and swept or raked into the joints.

Laying granite-block pavement.

(1) The granite-block pavement will be laid on a foundation of gravel and sand, with filling of hot paving cement.

(2) The granite blocks will be furnished by the District at the property-yards, or at streets or reservations where they may be stored.

(3) The space over which the pavement is to be laid will be excavated to the depth of $12\frac{1}{2}$ inches below the surface of the proposed pavement when completed. Any objectionable or unsuitable material below the bed will be removed and the space filled with clean gravel or sand. Care must be taken in excavating to preserve the proper crown. All holes and inequalities to be filled with sand or gravel, and such filling to be thoroughly compacted by rolling or ramming.

(4) Upon this foundation is to be laid a bed of fine bank gravel, 4 inches in depth, when compressed, screened from all pebbles measuring more than $1\frac{1}{2}$ inches in their largest dimensions, and thoroughly rammed. Upon this will be laid a bed of fine, sharp sand, washed and dried, 3 inches in thickness, to serve as a bed for the blocks, which will be laid directly upon and imbedded in it, with close joints. The stone blocks are to be laid at right angles with the line of the street; each course to be of blocks of a uniform width and depth, and so laid that all longitudinal joints shall be broken by a lap of at least 2 inches. When thus laid, the blocks will be immediately covered with clean, fine, hot dry gravel, in proper quantities, raked until all the joints become filled therewith, and the blocks will then be carefully rammed to a firm, unyielding bed, with uniform surface, and with proper grade. There will then be poured into the joints, at a temperature of 300° Fahr., paving cement of proper consistency, to be obtained by the direct distillation of coal-tar. The cement required is that ordinarily numbered 6 at the manufactory. It will be poured into the joints of the pavement until the sand beneath and the gravel between the blocks will absorb no more and the joints are filled flush with the upper surface of the pavement. Dry, hot gravel not larger than three-fourths of an inch in any dimension will then be poured along the joints, and will be consolidated by tapping with a light rammer. Any wastage of paving cement by pouring over the surface of the pavement instead of between the blocks must be covered with a sufficient quantity of fine dry gravel to absorb it.

SPECIAL PAVEMENTS.

Bidders are at liberty to submit for consideration proposals and specifications for any special or patented pavement which may be deemed suitable for roadways, furnishing in each case all necessary particulars and accurate statements of components and method of manufacture.

Laying granite blocks adjacent to railway tracks.

(1) When the pavement is laid adjacent to the tracks of a street railroad, one row of *selected* granite paving blocks will be laid next to the track, alternating as headers and stretchers toothing into the pavement. The blocks will be furnished by the District at the property yards or District reservations, and must be hauled to the street at the contractor's expense.

(2) The foundation will extend to the depth of the bottom of the cross-ties, and will be similar in all respects to the foundation of the carriage-way pavement, except as to thickness of base.

(3) If the foundation consists of bituminous concrete, the blocks will be laid directly upon and imbedded in the binder while it is still in a hot and plastic condition.

(4) If the foundation consists of hydraulic cement concrete, the base will be covered with a layer of fine, sharp sand, washed and dried, 2 inches in thickness, and the blocks will be laid directly upon and imbedded in this sand, with close joints.

(5) The top of the blocks will be even with the surface of the tread of the rail, which shall conform with the grade of the street.

(6) The blocks will be laid before the wearing surface is laid upon the carriage-way, and carefully rammed to a firm bed. Care will be taken to fit them well up against the stringers of the railroad.

(7) The space back of the blocks will be filled to the surface of the base for the carriage-way pavement, with the same material as is used for said base well rammed.

(8) Immediately after the wearing surface shall have been laid, clean, fine, hot gravel, not larger than three-fourths of an inch in any dimensions, will be poured into the joints of the blocks until they become nearly filled.

(9) There will then be poured into the joints, at a temperature of 300° Fahr., paving cement made of No. 6 coal-tar distillate, until the joints are completely filled flush with the surface of the pavement. Additional fine, hot gravel will then be poured along the joints, and will be consolidated by tapping with a light rammer. If found necessary, additional paving cement will be poured between the blocks until the joints are thoroughly filled.

(10) In measuring this work for payment, when standard sized granite blocks are used, the area included between the outer edge of the rail and a line parallel to and 6

inches from rail will be taken as the area of granite block pavement laid. Bids will be based on this rule.

(11) When so ordered, the block pavement will be extended to cover the entire area included between the rail and a line parallel to and 2 feet distant from said rail.

Maintenance.—The law requires that contractors shall keep new pavements in repair for a term of five years from the date of the completion of their contracts (act June 11, 1878, sec. 5, par. 9.)

SPECIFICATIONS FOR STREET CONSTRUCTION MATERIAL.

Granite curb.

The curbing must be of good and acceptable texture and color, dressed 12 inches on the face, 3 inches on the back, and chiseled 6 inches deep on the joints, with no projections beyond the chiseled portion of the joint, the joint to be at right angles to the face and top surface; the top surface to be beveled one-quarter inch; the face and top to be plane surfaces without depression or other irregularities. The length must not be less than 6 feet; depth, not less than 20 inches, nor more than 24 inches in any portion of a piece, and thickness 6 inches. Each piece must have a bed not less in area than the dressed portion of the curb, and no excessive protuberance on the sides.

Special granite curb.

Proposals will be received for a special form of granite curb to be 8 inches deep and 8 inches thick, and no piece less than 6 feet in length.

The curbing must be of suitable and acceptable color and texture, dressed on top, the full depth on the face, and 3 inches deep on back. The top surface will be beveled one-fourth of an inch. The face and top to be plane surfaces without bends, twists, depressions, cups, or other irregularities.

The joint will be chiseled throughout.

The bed will be rough dressed, to give secure bearing.

Bluestone curb.

The curbing must be best North River bluestone, dressed 12 inches on the face, and 3 inches on back, and chiseled 6 inches deep on the joints, with no projection beyond the chiseled portion of the joint, the joints to be right angles to the face and top surface. The top surface is to be beveled one-quarter inch, the face and top to be plane surfaces, without bends, twists, depressions, cups, or other irregularities. The length must not be less than 4 feet, depth not less than 20 inches, and not more than 24 inches in any portion of a piece, and thickness 5 inches. Each piece must have a bed not less in area than the dressed portion of the curb, and no excessive protuberance on the sides.

Circular curb.

Circular curb will conform in all respects to the above specifications, except that it will be cut to the required radius.

Granite paving blocks.

(1) The blocks may be of any syenite or granite equal in quality to what is known as Quincy granite, of uniform fine grain and texture, without lamination or stratification, and free from excess of mica or feldspar. Soft or weather-worn stones from the surface of the quarry, or stones that will wear smooth under traffic will not be accepted.

(2) The blocks must be of the following dimensions, viz: In length, not more than 8 nor less than 6 inches; in width, not more than 4 nor less than 3 inches; in depth, not more than 6 nor less than $5\frac{1}{2}$ inches, not more than one-fourth to be of the smaller dimension, and the average size shall be such that not more than forty shall be required to lay a square yard of pavement. They must be sufficiently dressed to present rectangular faces, with straight edges on top, bottom, and sides, and all blocks whose faces vary more than half an inch from a rectangular shape will be rejected. The sides and ends of the blocks must be so dressed that they will make close-fitting joints, and any block which has a greater projection than half an inch will be rejected.

D 9.—CONTRACTS FOR PAVEMENTS AND REPAIRS TO CONCRETE PAVEMENTS.

Pavement contracts.

GEORGETOWN.

| Date of contract. | No. of contract. | Name of contractor. | Locality. | Description of work. | Square yards. | Unit price. | Contracted work. | Material. | Total cost. | Remarks. |
|-------------------|------------------|------------------------------------|--|-------------------------------|---------------|-------------|------------------|------------|-------------|--------------------------------------|
| 1887.
June 20 | 822 | The Barber Asphalt Paving Company. | Thirty first street, from K to M. | Coal tar distillate pavement. | 1,208.70 | \$1.08 | \$4,417.24 | \$1,005.45 | \$5,514.39 | Includes \$91.70 for dressing curb. |
| | | | Q street, from Thirtieth to Valley. | do | 3,913.37 | 1.98 | 10,163.85 | 1,350.10 | 11,551.35 | Includes \$37.40 for dressing curb. |
| | | | Thirty fifth street, from P to Q. | do | 1,558.04 | 1.97 | 4,507.56 | 707.40 | 5,304.95 | Includes \$325.30 for dressing curb. |
| | | | Dumbarton street, from Twenty eighth to Thirty second. | do | 3,608.80 | 1.98 | 9,270.56 | 413.80 | 10,000.81 | |
| Nov. 4 | 884 | do | Q street, from Valley to Thirty second. | do | 1,006.70 | 1.98 | 3,173.49 | 710.51 | 3,884.30 | |
| | | | | | 11,385.01 | | 31,532.09 | 4,277.62 | 36,264.80 | |

NORTHWEST.

| | | | | | | | | | | |
|---------|-----|----------------|---|---|----------|------|-----------|----------|-----------|--------------------------------------|
| June 20 | 810 | H. L. Cranford | Q street, from Rhode Island avenue to Sixth. | Coal tar distillate pavement. | 4,758.50 | 1.98 | 11,222.69 | 1,663.92 | 13,030.01 | Includes \$143.40 for dressing curb. |
| | | | R street, from Twenty first to Connecticut avenue. | do | 1,411.03 | 1.98 | 3,308.18 | 206.85 | 3,582.83 | Includes \$67.80 for dressing curb. |
| | | | Elventh street, from R to S. | do | 2,063.20 | 1.98 | 4,028.88 | 160.19 | 5,226.57 | Includes \$137.50 for dressing curb. |
| | | | Twelfth street, from Rhode Island avenue to Vermont avenue. | do | 2,304.00 | 1.98 | 7,836.48 | 283.40 | 8,119.88 | |
| | | | Q street, from Seventeenth to Connecticut avenue. | Setting curb and laying brick sidewalk. | | | 748.72 | 1,842.45 | 2,051.07 | Includes \$60.50 for dressing curb. |
| | | | Seventeenth street, from P to Q. | Coal tar distillate pavement. | 1,765.30 | 1.98 | 5,499.72 | 51.80 | 5,551.52 | |
| | | | Eighteenth street, from P to Q. | do | 1,763.70 | 1.98 | 5,540.03 | 350.85 | 5,896.88 | |
| | | | Tenth street, from R to S. | do | 1,002.40 | 1.98 | 5,330.75 | 1,280.80 | 6,639.55 | Includes \$22 for dressing curb. |
| | | | Twenty first street, from Corcoran to R. | do | 988.15 | 1.98 | 2,307.34 | 401.00 | 2,750.74 | Includes \$48.40 for dressing curb. |

| | | | | | | | | | | |
|---------|-----|------------------------------------|--|-----------------------------------|---------------|-------|-------------|------------|-------------|-------------------------------------|
| June 25 | 811 |do | New Jersey avenue, from M to Boundary. |do | 18, 126.95 | 1.99½ | 23, 350.57 | 7.07 | 38, 357.64 | |
| June 29 | 822 | The Barber Asphalt Paving Company. | North Capitol street, from Massachusetts avenue to E street. |do | 1, 928.20 | 1.98 | 4, 168.65 | 61.84 | 4, 230.49 | |
| Oct. 10 | 880 |do | North Capitol street, from I to K. | Setting curb and laying sidewalk. |do ..... | ..... | 172.19 | 39.55 | 211.74 | |
| June 29 | 822 |do | E street, from New Jersey avenue to North Capitol. | Coal-tar distillate pavement. | 2, 494.01 | 1.98 | 5, 871.89 | 1, 012.58 | 6, 889.87 | Includes \$15.40 for dressing curb. |
| | | | F street, from New Jersey avenue to North Capitol. |do | 2, 962.20 | 1.98 | 7, 378.63 | 1, 327.00 | 8, 743.03 | Includes \$37.40 for dressing curb. |
| | | | G street, from New Jersey avenue to North Capitol. |do | 3, 802.29 | 1.98 | 9, 389.68 | 1, 319.89 | 10, 809.12 | Includes \$99.55 for dressing curb. |
| | | | Massachusetts avenue, from New Jersey avenue to North Capitol. |do | 5, 143.20 | 1.98 | 13, 810.80 | 328.59 | 14, 178.99 | Includes \$39.60 for dressing curb. |
| | | | | | 51, 503.13 | ..... | 125, 871.20 | 10, 343.78 | 136, 886.53 | |

SOUTHWEST.

| | | | | | | | | | | |
|---------|-----|--------------------|--|-------------------------------|------------|-------|------------|-----------|------------|--------------------------------------|
| June 24 | 808 | Andrew Gleason .. | G street, from Third to Fourth and-a-half. | Grade and regulate. .... | ..... | ..... | 720.73 | 1, 291.03 | 2, 156.96 | Includes \$145.20 for dressing curb. |
| June 25 | 811 | H. L. Cranford ... | E street, from Seventh to river. |do | 6, 203.10 | ..... | 8, 160.38 | 1, 774.87 | 10, 334.05 | Includes \$398.80 for dressing curb. |
| | | | E street, from Third to Virginia avenue. | Coal-tar distillate pavement. | 1, 580.45 | 1.99 | 4, 050.21 | 860.93 | 4, 950.74 | Includes \$39.60 for dressing curb. |
| | | | C street, from First to Fourth and-a-half. |do | 5, 941.07 | 1.99 | 16, 127.75 | 1, 879.21 | 18, 085.95 | Includes \$78.99 for dressing curb. |
| | | | H street, from Third to Fourth and-a-half. |do | 2, 407.37 | 1.99 | 5, 674.50 | 1, 255.24 | 6, 947.54 | Includes \$17.80 for dressing curb. |
| | | | D street, from Third to Fourth and-a-half. |do | 2, 362.61 | 1.99 | 5, 929.19 | 1, 112.88 | 7, 068.47 | Includes \$26.40 for dressing curb. |
| | | | | | 18, 494.60 | ..... | 40, 662.76 | 8, 174.16 | 49, 543.71 | |

NORTHEAST.

| | | | | | | | | | | |
|--------|-----|------------------|--|--------------------------|-----------|-------|-----------|--------|-----------|--------------------------------------|
| June 8 | 803 | P. Maloney | Third street, from C to Maryland avenue. | Asphalt-block pavement.. | 1, 090.20 | 1.99 | 2, 800.88 | 46.15 | 2, 976.63 | Includes \$129.60 for dressing curb. |
| | | | Second street, from C to Maryland avenue. |do | 1, 845.75 | 1.98½ | 4, 493.69 | 111.73 | 4, 787.02 | Includes \$181.00 for dressing curb. |
| | | | Seventh street, from East Capitol to Massachusetts avenue. |do | 3, 339.57 | 1.99 | 8, 632.30 | 147.68 | 8, 941.78 | Includes \$161.80 for dressing curb. |

Pavement contracts—Continued.

NORTHEAST—Continued.

| Date of contract. | No. of contract. | Name of contractor. | Locality. | Description of work. | Square yards. | Price per sq. yard. | Contract work. | Material. | Total cost. | Remarks. |
|-------------------|------------------|------------------------------------|---|---|----------------------------------|------------------------|-----------------------------------|--------------------------|-----------------------------------|--------------------------------------|
| 1887.
June 24 | 808 | Andrew Gleason | G street, from North Capitol to Second. | Grade and regulate | 4,241.71 | | \$4,100.75 | \$1,636.33 | \$6,320.28 | Includes \$583.20 for dressing curb. |
| June 29 | 822 | The Barber Asphalt Paving Company. | A street, from Fourth to Seventh.
B street, from Sixth to Massachusetts avenue.
North Capitol street, from Massachusetts avenue to E. | Coal-tar distillate pavement.
.....do
.....do | 4,205.84
2,250.24
1,928.20 | \$1.98
1.98
1.98 | 10,000.92
5,195.64
4,153.65 | 110.76
27.69
61.84 | 10,610.08
5,223.33
4,230.49 | Includes \$498.40 for dressing curb. |
| Oct. 10 | 880 |do | North Capitol street, from I to K. | Setting curb and laying sidewalks. | ..... | ..... | 359.94 | 80.48 | 440.42 | |
| | | | | | 18,901.51 | ..... | 39,752.77 | 2,222.66 | 43,530.03 | |

SOUTHEAST.

| | | | | | | | | | | |
|-------------------|------------|------------------------------------|---|--|--|--------------------------------|--|--------------------------------------|--|--|
| June 25 | 803 | P. Maloney..... | A street from Sixth to Seventh.
Sixth street from Pennsylvania avenue to E.
Seventh street from East Capitol to Pennsylvania avenue.
Third street from Pennsylvania avenue to C. | Asphalt-block pavement.
.....do
.....do
.....do | 2,390.86
4,398.76
7,223.00
987.20 | 1.98½
1.99
1.98½
1.99 | 5,944.05
10,120.53
20,108.42
2,428.26 | 50.77
148.36
1,176.16
39.25 | 5,994.82
10,429.89
21,395.78
2,561.51 | Includes \$161 for dressing curb.
Includes \$111.20 for dressing curb. |
| June 25
July 8 | 811
823 | H. L. Cranford
J. Reynolds..... | B street from Fifth to North Carolina avenue.
Virginia avenue from Third street to Eleventh. | Coal-tar distillate pavement.
Grade and regulate | 3,154.16
..... | 1.99
..... | 7,318.85
7,867.69 | 229.92
4,514.99 | 7,832.97
12,382.68 | Includes \$94 for dressing curb.
Includes \$284.20 for dressing curb.
Includes \$490.85 for dressing curb. |
| | | | | | 18,154.08 | ..... | 53,787.80 | 6,159.45 | 60,597.65 | |

REPAIRS TO CONCRETE PAVEMENTS.

| | | | | | | | | | |
|-------------------|------------|------------------------------|--|---|------------|-------|-----------|-------|-----------|
| 1887.
June 25 | 813 | H. L. Cranford | Scott Circle..... | Resurfaced with coal-tar
distillate. | 9,001.00 | 1.05 | 10,455.89 | | 10,455.89 |
| | | | Thirteenth street, from F
to H. |do | 3,318.00 | 1.05 | 3,820.58 | | 3,820.58 |
| | | | L street, from Connecticut
avenue east, 199.38 feet. |do | 708.91 | 1.05 | 945.13 | | 945.13 |
| | | | Pennsylvania avenue, from
Twenty-sixth street to
Rock Creek. |do | 2,459.52 | 1.05 | 2,690.38 | | 2,690.38 |
| | | | New York avenue, from
Eleventh to Twelfth
street. |do | 1724.80 | 1.05 | 2,046.27 | | 2,046.27 |
| | | | K street (south side), from
Seventh to Ninth. |do | 1,100.00 | 1.05 | 1,435.82 | 46.15 | 1,481.97 |
| | | | G street, from Seventeenth
to Nineteenth and Twen-
ty-first to Twenty-sec-
ond. |do | 6737.77 | 1.05 | 7,819.59 | 46.15 | 7,865.74 |
| | | | Q street, from Twentieth to
Connecticut avenue. |do | 651.29 | 1.05 | 929.44 | | 929.44 |
| | | | H street, from Vermont
avenue to Connecticut
avenue. |do | 2,603.56 | 1.05 | 2,736.14 | | 2,736.14 |
| June 25
Nov. 7 | 812
886 | H. L. Cranford
P. Maloney | Various | Minor repairs. | *2,212.79 | | 42,795.62 | ... | 42,795.62 |
| | | | E street, from Thirteenth
to Pennsylvania avenue. | Replacing asphalt blocks.. | 955.55 | 1.50 | 1,452.21 | | 1,452.21 |
| | | | | | †29,260.40 | ..... | 77,127.07 | 92.30 | 77,219.37 |

* Minor repairs = 2,212.79 cubic yards.

† Resurfacing = 229,260.40 square yards.

Filling streets below grade.

| Date. | Con-
tract. | Name of con-
tractor. | Location. | Cubic
yards. | Price. | Total
cost. |
|---------------|----------------|--|---|---------------------|---------------|-------------------|
| May 18, 1887 | Order
790 | Albert Gleason ...
E. E. Barnes | Oregon avenue
C st. bet. S Capitol and
Del. ave., SW. | 864.00
13,510.00 | \$0.10
.05 | \$86.40
675.50 |
| May 18, 1887 | 790 | ...do | D st. bet. S. Capitol and
Canal st., SW. | 18,181.00 | .05 | 909.05 |
| July 29, 1887 | 858 | Wm. Buckley | G. H. and I sta. bet. 2nd
4 th sts., SW. | 1,334.00 | .10 | 133.40 |
| Dec. 12, 1887 | 894 | W. F. Henry | Del. ave. bet. C and D sts.,
SW. | 2,811.00 | .10 | 281.10 |
| Mar. 12, 1888 | 901 | M. F. Talty | C st. bet. S. Capitol and
Del. ave., SW. | 1,107.00 | .10 | 110.70 |
| June 30, 1888 | 905 | J. A. Blundon | V st. bet. 14th and 15th sts. | 1,287.40 | .10 | 128.74 |
| | | | | 39,094.40 | ..... | 2,324.89 |

D 10.—MISCELLANEOUS CONTRACTS.

| Date. | No. of
contract. | Name of contractors. | Nature of work done. |
|---------|---------------------|--|---|
| 1887. | | | |
| May 6 | 780 | Potomac Terra Cotta Co. | Furnish terra cotta material. |
| Apr. 29 | 781 | C. Thomas | Construct 8-room school-house on Vermont avenue
between T and U. |
| May 7 | 782 | Brandywine Granite Co. | Furnish 7,000 feet 8 x 8 granite curb. |
| 7 | 784 | The Hastings Pavement Co. .. | Furnish asphalt block and tiles. |
| 9 | 786 | The Virginia Granite Co. | Furnish granite paving blocks. |
| 11 | 787 | New York and Maine Granite
Paving Block Co. | Furnish granite curb. |
| 12 | 788 | The American Sewer Pipe Co. .. | Furnish terra cotta material. |
| 18 | 791 | C. Thomas | Construct school house on Fifth street between D
and E, streets, NE. |
| 18 | 792 |do | Construct school-house on North Capitol street be-
tween K and L streets |
| 24 | 793 | L. D. Smead | Furnish and set 4 furnaces and ventilating appara-
tus, etc., in school building on Fifth street be-
tween D and E streets, NE. |
| 24 | 794 |do | Furnish and set 4 furnaces and ventilating appara-
tus in school building on M street between Six-
teenth and Seventeenth streets, NW. |
| 24 | 795 |do | Furnish and set 4 furnaces and ventilating appara-
tus in school building on G street between Third
and Fourth streets, SE. |
| 24 | 796 |do | Furnish and set up 4 furnaces and ventilating ap-
paratus in school building corner Eighth and C
streets, SE. |
| 24 | 797 |do | Furnish and set up 4 furnaces and ventilating ap-
paratus in school building on North Capitol street
between K and L streets. |
| 24 | 798 |do | Furnish and set up 4 furnaces and ventilating ap-
paratus in school building on Thirteen-and-a-half
street between C and D streets, SW. |
| 24 | 799 |do | Furnish 4 furnaces and ventilating apparatus in
school building on Vermont avenue between T
and U streets. |
| 26 | 800 | Washington Brick Machine Co. | Furnish paving and arch bricks. |
| June 3 | 801 | G. Creany | Dress curb. |
| 3 | 802 | J. B. Adams | Furnish pupils desks and chairs. |
| 17 | 804 | G. A. Mills | Furnish school furniture. |
| May 13 | 805 | Harrisburg Car-Manufacturing
Co. | One 10-ton steam road-roller. |
| June 23 | 806 | J. T. Springman & Son | Furnish 100,000 pounds special castings. |
| 24 | 807 | W. E. Hodge | Sprinkle, sweep, and clean alleys. |
| 25 | 814 | F. M. Draney | Sprinkle, sweep, and clean streets and avenues. |
| 29 | 815 | The Camden Iron Works | Furnish cast-iron pipe. |
| July 1 | 816 | F. M. Draney | Remove garbage, etc. |
| June 13 | 819 | Standard Underground Cable
Co. | Lay underground cable for telegraph and telephone
service. |
| July 5 | 821 | Edmunds & Kelly | Furnish portable 4-inch pumping plant. |
| 5 | 825 | Royce & Marean | Furnish telegraph and telephone supplies. |
| 25 | 841 | L. D. Smead | Constructing dry closets in Peabody, Garnet, Ab-
bott, and Henry school-houses. |

D 10.—MISCELLANEOUS CONTRACTS—Continued.

| Date. | No. of contract. | Name of contractors. | Nature of work done. |
|----------|------------------|--------------------------------|--|
| 1887. | | | |
| Aug. 7 | 847 | M. F. Talty | Soil-parking on Indiana avenue from First to Third streets, N.W. |
| 11 | 861 | H. I. Gregory | Painting lamp-posts. |
| 26 | 863 | Potomac Terra Cotta Co. | Furnish terra-cotta pipe. |
| Sept. 12 | 864 | W. T. Skinner | Furnish broken stone. |
| 19 | 865 | J. W. Willis | Do. |
| 19 | 866 | C. W. Donaldson | Do. |
| 13 | 872 | J. McClelland | Furnish valves. |
| 21 | 873 | Leitch and Sons | Furnish stop-cock boxes. |
| 24 | 874 | D. L. Shoemaker | Furnish broken stone. |
| Oct. 1 | 875 | Holly Manufacturing Co. | Furnish pumping plant. |
| 10 | 876 | H. McShane | Furnish stop-cocks. |
| Sept. 27 | 878 | Forsberg & Murray | Repair draw of Anacostia Bridge. |
| Oct. 12 | 879 | D. L. Shoemaker | Furnish broken stone. |
| 10 | 881 | Beckham & Middleton | Furnish steam boiler and engine. |
| 28 | 883 | Barber Asphalt Paving Co. | Lay sidewalk Seventh and Pennsylvania avenue. |
| Nov. 3 | 885 | Gamewell Fire Alarm Co | Construct police signal service. |
| 10 | 889 | Georgetown Gas Co. | Furnish gas, clean and keep clean lamps. |
| 18 | 890 | Washington Gas Co | Do. |
| Dec. 6 | 891 | U. S. Electric Light Co | Electric lamps. |
| Nov. 9 | 892 | do | Do. |
| Dec. 7 | 893 | J. T. Summers | Remove wreck from channel foot of Thirteenth st., S. W. |
| 1888. | | | |
| Feb. 11 | 896 | A. B. Burns | Fire-escapes, platforms, and stand pipes. |
| Mar. 7 | 899 | W. S. Chew | Do. |
| 10 | 900 | H. I. Gregory | Furnish street lamps, lanterns, and designations. |
| May 31 | 902 | Scott & Wilson | Repairs at U street pump-house. |

D 11.—SUPPLY CONTRACTS.

| Date. | No. of contracts. | Name of contractor. | Nature of work. |
|--------|-------------------|----------------------------|---|
| 1887. | | | |
| July 1 | 817 | E. G. Wheeler | Furnish hardware for one year from July 1, 1887. |
| 1 | 818 |do | Furnish telegraph and telephone supplies for one year from July 1, 1887. |
| 9 | 825 | Royce & Maran | Do. |
| 11 | 827 | Rich & Son | Furnish boots and shoes for one year from July 1, 1887. |
| 15 | 828 | Springman & Son | Furnish lamp-posts and miscellaneous castings for one year from July 1, 1887. |
| 15 | 829 | M. W. Beveridge | Furnish furniture for one year from July 1, 1887. |
| 18 | 830 | J. B. Bryan | Furnish groceries for one year from July 1, 1887. |
| 18 | 831 | H. W. Blunt | Furnish cement and lime for one year from July 1, 1887. |
| 21 | 834 | Leitch & Son | Furnish plumbers' materials for one year from July 1, 1887. |
| 21 | 835 | Ergood & Co. | Furnish groceries for one year from July 1, 1887. |
| 21 | 836 | G. J. Johnson | Furnish dry goods for one year from July 1, 1887. |
| 23 | 837 | Scheller & Stevens | Furnish drugs for one year from July 1, 1887. |
| 25 | 839 | John Miller | Furnish fuel for one year from July 1, 1887. |
| 25 | 840 | Browning & Middleton | Furnish groceries for one year from July 1, 1887. |
| 26 | 842 | W. J. C. Dulaney | Furnish stationery for one year from July 1, 1887. |
| 26 | 843 |do | Furnish school books for one year from July 1, 1887. |
| 26 | 844 | W. M. Galt & Co | Furnish groceries for one year from July 1, 1887. |
| 26 | 845 | W. G. Galt & Co | Furnish forage for one year from July 1, 1887. |
| 28 | 846 | Dunlap & Clark | Furnish forms and printing for one year from July 1, 1887. |
| 30 | 847 | F. Hume | Furnish bacon and ham for one year from July 1, 1887. |
| 30 | 848 | F. Hume | Furnish groceries for one year from July 1, 1887. |
| 30 | 851 | Lansburgh Bros | Furnish dry goods for one year from July 1, 1887. |
| Aug. 4 | 852 | T. T. Keane | Furnish fresh meat and corn beef for one year from July 1, 1887. |
| 4 | 853 | J. M. Wheatley | Furnish fuel for one year from July 1, 1887. |
| 4 | 854 | C. Holtman | Furnish boots and shoes for one year from July 1, 1887. |

D 11.—SUPPLY CONTRACTS—Continued.

| Date. | No. of contract. | Name of contractor. | Nature of work. |
|----------|------------------|------------------------------|--|
| 1887. | | | |
| Aug. 6 | 855 | Myers & Loring | Furnish forage for one year from July 1, 1887. |
| 6 | 856 | Johnson Bros. | Furnish fuel for one year from July 1, 1887. |
| 8 | 858 | R. Cohen | Furnish boots and shoes for one year from July 1, 1887. |
| 10 | 859 | T. O. Varnell | Furnish fresh meats for one year from July 1, 1887. |
| 11 | 860 | H. I. Gregory | Furnish tinware and street-lamps for one year from July 1, 1887. |
| 11 | 862 | W. B. Moses | Furnish furniture for one year from July 1, 1887. |
| Sept. 2 | 864 | W. B. Williams | Do. |
| Aug. 27 | 867 | J. L. Barbour | Furnish forage for one year from July 1, 1887. |
| 27 | 868 |do | Furnish groceries for one year from July 1, 1887. |
| Sept. 12 | 869 | M. Lindsay | Furnish plumbers' materials for one year from July 1, 1887. |
| Aug. 31 | 870 | Great Falls Ice Company..... | Furnish ice for one year from July 1, 1887. |
| Sept. 12 | 871 | Willett & Libby..... | Furnish lumber for one year from July 1, 1887. |
| Oct. 10 | 877 | H. McShane | Furnish plumbers' material for one year from July 1, 1887. |
| 28 | 882 | Judd & Detwiler | Furnish printing for one year from July 1, 1887. |
| Nov. 16 | 887 | R. C. Hewett..... | Furnish forage during fiscal year 1888. |
| 16 | 888 | G. A. Shehan..... | Furnish lumber during fiscal year 1888. |
| Dec. 22 | 895 | F. Miller | Furnish paints, oils, and glass during fiscal year 1888. |

D 12.—WORK DONE FOR RAILROAD COMPANIES.

Pavements laid and repaired for railroad companies.

| Con-
tract. | Company. | Locality. | Base.
Cu. yds. | Binder.
Cu. yds. | Coal-tar
distil-
late. | Asphalt.
Cu. yds. | Coal-tar
distil-
late. | Asphalt
blocks. | Granite
blocks. | Total
cost. |
|----------------|--|--|-------------------|---------------------|------------------------------|----------------------|------------------------------|--------------------|--------------------|----------------|
| 812 | Washington and George-
town. | Pennsylvania avenue, from Eighteenth street to Twenty-third | 24.07 | 12.88 | 11.41 | | 80.95 | Sq. yds.
26.98 | Sq. yds.
26.98 | \$386.06 |
| 812 | do | Pennsylvania avenue, from First street to Fifteenth | | | | 47.9519 | | | | 839.14 |
| 812 | do | New Jersey avenue, from B street to C | | | 1.25 | 1.229 | | | | 45.25 |
| 812 | do | New York avenue, from Fourteenth street to Fifteenth | | 0.67 | 1.33 | 0.46 | | | | 38.08 |
| 812 | do | Fourteenth street, from New York avenue to Boundary | | | | 21.78 | | | | 381.16 |
| 812 | do | Fifteenth street at New York avenue | 9.54 | 6.04 | | 10.05 | | 139.18 | | 274.16 |
| 812 | Capitol, O street and south
Washington. | E street, from Thirteenth to Pennsylvania avenue | | | | | | | | 208.77 |
| 812 | do | E street, from Ninth to Eleventh | | | | 1.05 | | | | 18.37 |
| 812 | do | Fourteenth street at Pennsylvania avenue and at E street | | | | 7.28 | | | | 127.40 |
| 812 | do | First street at E | | | | 0.2281 | | | | 3.98 |
| 812 | do | New Jersey avenue, from M street to P | | | | | | | | 256.09 |
| 812 | do | Eleventh street, from F to R | | 1.78 | 0.07 | 3.75 | 19.80 | 6.71 | | 133.51 |
| 813 | do | Thirteenth street at Ohio avenue | | | | 0.42 | | | | 7.36 |
| 812 | do | Sixth street at P | | | | 0.25 | | | | 4.38 |
| 812 | do | O street, from Fourth to Eleventh | | | | 7.80 | | | | 136.50 |
| 812 | do | Fourth street, from New Jersey avenue to G street | | | | 6.59 | | | | 115.32 |
| 812 | do | G street, from New Jersey avenue to Fourth street | | | | 7.80 | | | | 136.50 |
| 812 | Columbia | New York avenue, from Tenth street to Twelfth street | | 1.18 | | 0.25 | 13.78 | 4.65 | | 42.25 |
| 812 | do | K street, from Seventh street to Ninth street | | 7.78 | | | 88.00 | 29.40 | | 231.34 |
| 813 | do | Massachusetts avenue, from Fourth street to Fifth street | | | | | | | | 10.85 |
| 812 | Metropolitan | F street, from Fifth street to Fourteenth street | | | 0.397 | 5.3634 | | | | 101.39 |
| 812 | do | Fourteenth street, from New York avenue to H street | | | 0.29 | 1.78 | | | | 36.66 |
| 812 | do | Dupont Circle | 3.78 | 16.30 | | 10.18 | | | | 322.19 |
| 812 | do | New Jersey avenue and C street | | | | 1.196 | | | | 10.93 |
| 812 | do | East Capitol, First street to Ninth street | | | | 3.69 | | | | 64.38 |
| 812 | do | Ninth street at Pennsylvania avenue | | | | 0.052 | | | | .91 |
| 812 | do | Seventeenth street at Pennsylvania avenue | | | | 0.08 | | | | 1.40 |
| 812 | do | Ninth street, from F street to P street | | | | 2.668 | | | | 46.69 |
| 812 | do | Seventeenth street and K street | | | | 2.88 | | | | 50.40 |
| 812 | do | First street, from East Capitol street to B | | | | 0.16 | | | | 2.80 |
| 812 | do | Fifteenth street at H street | | | | 0.24 | | | | 4.20 |
| 812 | do | Sixteen-and-a-half street at H street | | | | 0.64 | | | | 11.20 |
| 812 | do | H street, from Fifteenth street to Fifteen-and-a-half street | | | | 0.054 | | | | .95 |
| 822 | do | Dumbarton street, from Twenty-eighth street to Thirty-second | | | | | 529.11 | 176.30 | | 1,294.46 |
| | | | 37.39 | 46.63 | 18.92 | 146.4924 | 731.64 | 139.18 | 244.04 | 5,345.14 |

D 13.—LIST OF INSPECTORS ON SURFACE WORK.

Inspectors on surface work.

| Name | Days on duty | Per diem com-
pensation. | Amount
paid. | Under contract. | Paid from appropriation. |
|----------------------|--------------|-----------------------------|-----------------|-----------------|--------------------------------|
| <i>Days.</i> | | | | | |
| E. F. Butler..... | 126 | 26.00 | \$348.00 | \$348.00 | Work on water works. |
| W. H. Calhoun..... | 143 | 4.50 | 643.50 | 643.50 | Do. |
| William Davis..... | 126 | 4.50 | \$567.00 | \$567.00 | Do. |
| J. M. Hickey..... | 177 | 3.50 | 619.50 | 619.50 | Do. |
| J. N. O'Connell..... | 144 | 3.50 | \$504.00 | \$504.00 | Do. |
| J. J. Power..... | 56 | 4.50 | \$252.00 | \$252.00 | Do. |
| Wm. Johnston..... | 40 | 4.50 | \$180.00 | \$180.00 | Do. |
| William Murray..... | 121 | 3.50 | \$423.50 | \$423.50 | Do. |
| A. G. McKenzie..... | 109 | 3.50 | \$381.50 | \$381.50 | Do. |
| E. P. Hickey..... | 41 | 3.50 | \$143.50 | \$143.50 | Do. |
| G. T. Mason..... | 132 | 3.50 | \$462.00 | \$462.00 | Do. |
| G. W. Smith..... | 50 | 2.50 | \$125.00 | \$125.00 | Do. |
| W. S. Hancock..... | 126 | 3.50 | \$441.00 | \$441.00 | Do. |
| C. Fernand..... | 146 | 2.50 | \$365.00 | \$365.00 | Do. |
| J. Neill..... | 51 | 2.50 | \$127.50 | \$127.50 | Do. |
| P. Kelly..... | 314 | 5.00 | 1,570.00 | \$157.00 | Repairs to water works. |
| T. McMahon..... | 176 | 3.50 | \$616.00 | \$616.00 | Do. |
| D. Mills..... | 146 | 3.00 | \$438.00 | \$438.00 | Do. |
| J. Conner..... | 71 | 3.50 | \$248.50 | \$248.50 | Do. |
| E. H. Parker..... | 126 | 1.50 | \$189.00 | \$189.00 | Do. |
| <i>Months.</i> | | | | | |
| William Harper..... | 7 | *1,200.00 | \$84.00 | \$84.00 | Sweeping and cleaning streets. |
| M. J. Foley..... | 7 | 75.00 | \$525.00 | \$525.00 | Do. |
| W. L. Hildreth..... | 7 | 75.00 | \$525.00 | \$525.00 | Do. |
| G. H. Huggins..... | 7 | 75.00 | \$525.00 | \$525.00 | Do. |
| <i>Days.</i> | | | | | |
| E. P. Hickey..... | 62 | 3.50 | \$217.00 | \$217.00 | Opening and extending streets. |
| W. H. Calhoun..... | 7 | 4.50 | \$31.50 | \$31.50 | Repairs to concrete pavements. |

* Per annum.

† Per month.

D 14.—SEWER WORK.

Main and pipe sewers (contract work).

| No. | Contractor. | Location. | Size of pipe. | Linear feet sewer laid. | Contract price per foot. | Excavation. | | Masonry. | | Rock excavation. | Lumber left in trench. | Cost of work. | Extra work. | Amount paid contractor. | Cost of material. | Cost of inspection. | Total cost. |
|-----|-----------------|---|---------------|-------------------------|--------------------------|-------------|----------|----------|----------|------------------|------------------------|---------------|-------------------|-------------------------|-------------------|---------------------|-------------|
| | | | | | | Excess. | Deficit. | Excess. | Deficit. | | | | | | | | |
| 826 | W. H. Mohler... | Dumbarton av. from Twenty-ninth st. to Thirty-first | 12-inch.... | 600 | \$0.77 | ..... | \$13.69 | ..... | \$4.85 | \$115.20 | ..... | \$558.66 | ..... | \$558.66 | \$104.80 | \$81.16 | \$744.62 |
| | do. | New Hampshire av. from R st. to S | 12-inch .. | 984 | .77 | ..... | 13.25 | ..... | 11.98 | ..... | ..... | 732.45 | ..... | 732.45 | 172.96 | 106.40 | 1,011.81 |
| | do. | E st. from North Capitol to New Jersey av | 12-inch .. | 271 | .77 | ..... | 10.08 | ..... | 10.73 | ..... | ..... | 187.86 | ..... | 187.86 | 39.04 | 27.29 | 254.19 |
| | do. | H st. from Ninth to Tenth | 12-inch .. | 160 | .77 | \$0.79 | ..... | \$0.88 | ..... | ..... | ..... | 124.87 | \$10.13 | 135.00 | 31.36 | 19.61 | 185.97 |
| | do. | I st. from Twenty-first to Twenty-second | 12-inch .. | 265 | .77 | .96 | ..... | 1.10 | ..... | ..... | ..... | 206.11 | ..... | 206.11 | 47.68 | 29.94 | 283.73 |
| | do. | P st. from Eighth to Ninth | 12-inch.... | 107 | .77 | 1.79 | ..... | ..... | ..... | ..... | ..... | 84.18 | 7.41 | 91.59 | 17.12 | 13.31 | 122.02 |
| | do. | Prospect st. from Thirtieth st. to Thirty-sixth | 12-inch .. | 659 | .77 | ..... | 1.81 | 1.17 | ..... | ..... | ..... | 506.79 | 372.98 | 879.77 | 124.00 | 127.81 | 1,131.58 |
| | do. | Q st. from First to Third | 12-inch .. | 747½ | .77 | ..... | 11.28 | ..... | 6.91 | ..... | ..... | 557.38 | ..... | 557.38 | 137.52 | 80.97 | 775.87 |
| | do. | Q st. from Sixth to Seventh | 12-inch .. | 273 | .77 | ..... | 4.57 | ..... | 2.72 | ..... | ..... | 202.92 | ..... | 202.92 | 48.00 | 29.48 | 280.40 |
| | do. | Fifth st. from S to Boundary | 12-inch.... | 391½ | .77 | ..... | 1.50 | 2.64 | ..... | ..... | ..... | 302.60 | ..... | 302.60 | 72.80 | 43.96 | 419.36 |
| | do. | Seventh st. from New York av. to L. | 12-inch .. | 192 | .77 | | 1.34 | | 1.54 | | | 144.96 | 7.30 }
12.75 } | 165.01 | 35.04 | 23.97 | 224.02 |
| | do. | Ninth st. from P to Q | 12-inch .. | 518 | .77 | .38 | ..... | 1.03 | ..... | ..... | ..... | 400.27 | 7.70 | 407.97 | 105.30 | 59.26 | 572.53 |
| | do. | Ninth st. from U to Twelfth st. | 12-inch .. | 135 | .77 | ..... | .89 | ..... | .59 | ..... | ..... | 102.47 | ..... | 102.47 | 24.80 | 14.89 | 142.16 |
| | do. | Twelfth st. from Q to R | 12-inch .. | 136 | .77 | .55 | ..... | ..... | .44 | ..... | ..... | 104.83 | 4.23 | 109.06 | 23.68 | 15.84 | 148.58 |
| | do. | Thirty-fourth st. from Prospect to N | 12-inch .. | 200 | .77 | ..... | 3.79 | ..... | 3.60 | ..... | ..... | 146.61 | ..... | 146.61 | 38.24 | 21.30 | 206.15 |
| | do. | D st. from Fifth to Seventh | 12 inch.... | 500 | .77 | 2.02 | ..... | ..... | 1.69 | ..... | ..... | 385.33 | ..... | 385.33 | 89.12 | 55.97 | 530.42 |
| | do. | East Capitol from Second to Third st. | 12-inch.... | 381 | .77 | 11.71 | ..... | 8.82 | ..... | ..... | ..... | 313.90 | ..... | 313.90 | 68.16 | 45.60 | 427.66 |
| | do. | East Capitol from Third to Fourth st. | 12-inch.... | 130 | .77 | ..... | ..... | ..... | ..... | ..... | ..... | 100.10 | ..... | 100.10 | 28.14 | 14.54 | 142.78 |
| | do. | G st. from Delaware av. to Second st. | 12-inch.... | 500 | .77 | ..... | 39.74 | 5.22 | ..... | ..... | ..... | 350.48 | ..... | 350.48 | 92.00 | 50.92 | 493.40 |

Main and pipe sewers (contract work)—(Continued).

| No. | Contractor. | Location. | Size of pipe. | Linear feet sewer laid. | Contract price per foot. | Excavation. | Masonry. | Rock excavation. | Lumber left in trench. | Cost of work. | Extra work. | Amount paid contractor. | Cost of material. | Cost of inspection. | Total cost. |
|----------------|-------------------|--|---------------|-------------------------|--------------------------|-------------|----------|------------------|------------------------|---------------|-------------|-------------------------|-------------------|---------------------|-------------|
| 826 | W. H. Mohler. | H st. from Fifth to Sixth. | 12 inch. | 250 | \$0.77 | | | | \$1.20 | \$193.70 | | \$193.70 | \$43.84 | \$28.14 | \$265.68 |
| | do | H st. from Sixth to Seventh. | 12 inch. | 735 | .77 | \$3.04 | \$19.80 | | | 535.87 | \$3.92 | 539.79 | 129.60 | 78.40 | 747.79 |
| | do | H st. from Thirteenth to Fourteenth. | 12 inch. | 771 | .77 | | 35.18 | | | 535.93 | | 535.93 | 140.00 | 77.85 | 753.78 |
| | do | North Capitol from G st. to H. | 12 inch. | 354 | .77 | 4.94 | | \$1.84 | | 279.36 | | 279.36 | 60.72 | 40.58 | 380.66 |
| | do | North Capitol from M st. to N. | 12 inch. | 283 | .77 | 3.23 | | 1.83 | | 222.97 | | 222.97 | 56.16 | 32.39 | 311.52 |
| | do | E st. from Seventh to Eighth. | 12 inch. | 200 | .77 | .62 | | .44 | | 155.06 | | 155.06 | 30.08 | 22.53 | 207.67 |
| | do | H st. from Delaware av. to Third. | 12 inch. | 675 | .77 | | 35.43 | | | 456.39 | | 456.39 | 120.32 | 66.29 | 643.00 |
| | do | I st. from Fourth and a Half to Sixth. | 12 inch. | 540 | .77 | 3.21 | | 1.91 | | 420.92 | | 420.92 | 99.36 | 61.15 | 581.43 |
| | do | Virginia av. from Eighth to Ninth. | 12 inch. | 162 | .77 | | 4.80 | | 9.41 | 110.53 | | 110.53 | 27.84 | 16.06 | 154.43 |
| | do | M st. from Second to Third. | 12 inch. | 232 | .77 | 1.53 | | .95 | | 181.12 | | 181.12 | 40.32 | 26.31 | 247.75 |
| | do | Third st. from L to M. | 12 inch. | 302 | .77 | | | | .06 | 231.88 | | 231.88 | 53.12 | 33.68 | 318.68 |
| | do | Seventh st. from C to North Carolina av. | 12 inch. | 400 | .77 | 6.18 | | 3.08 | | 317.86 | | 317.86 | 72.16 | 46.17 | 436.19 |
| | do | Eighth st. from A to North Carolina av. | 12 inch. | 195 | .77 | .28 | | .37 | | 150.80 | | 150.80 | 34.08 | 21.91 | 206.79 |
| | do | Alley in square 169. | 12 inch. | 208 | .77 | | 12.38 | | | 136.06 | 3.73 | 139.79 | 35.33 | 20.31 | 195.46 |
| | do | Alley in square 868. | 12 inch. | 320 | .84 | | 35.15 | | 17.38 | 216.27 | 7.56 | 223.83 | 57.02 | 32.51 | 318.86 |
| | James McCandlish. | | | | | | | 76.44 | | 76.44 | | 76.44 | | 11.10 | 87.54 |
| Total 12-inch. | | | | { 12,458 }
320 | { .77 }
.84 | 41.23 | 244.77 | 108.32 | 148.71 | \$115.20 | 437.71 | 10,171.64 | 2,299.74 | 1,477.60 | 13,948.98 |
| 826 | W. H. Mohler. | New Hampshire av. from northeast cor. to R st. | 15-inch. | 9 | .81 | | | | | 7.29 | | 7.29 | 2.25 | 1.08 | 10.60 |
| | do | E st. from North Capitol to New Jersey av. | 15-inch. | 19 | .81 | | .88 | | | 14.51 | | 14.51 | 4.75 | 2.11 | 21.37 |
| | do | P st. from Columbia to Tenth. | 15-inch. | 116 | .81 | 3.40 | | 1.91 | | 99.27 | | 99.27 | 37.86 | 14.42 | 151.05 |

Main and pipe sewers (contract work)—Continued.

| No. | Contractor. | Location. | Size of pipe. | Linear feet sewer laid. | Con-tract price per foot. | Excavation. | | Masonry. | | Rock excavation. | Lum-ber left in trench. | Cost of work. | Extra work. | Amount paid con-tractor. | Cost of material. | Cost of inspec-tion. | Total cost. |
|----------------|--------------------------------|--|---------------|-------------------------|---------------------------|-------------|-----------|----------|-----------|------------------|-------------------------|---------------|-------------|--------------------------|-------------------|----------------------|-------------|
| | | | | | | Ex-cess. | Def-icit. | Ex-cess. | Def-icit. | | | | | | | | |
| 826 | W. H. Mohler. | H st. from Fifth to Sixth. | 12-inch. | 250 | \$0.77 | | | | | | \$1.20 | \$193.70 | | \$193.70 | \$43.84 | \$28.14 | \$265.68 |
| | do | H st. from Sixth to Seventh. | 12-inch. | 735 | .77 | \$3.04 | \$19.89 | | \$13.23 | | | 535.87 | \$3.92 | 539.79 | 129.60 | 78.40 | 747.79 |
| | do | H st. from Thirteenth to Fourteenth. | 12-inch. | 771 | .77 | | 35.18 | | 22.56 | | | 535.93 | | 535.93 | 140.00 | 77.85 | 753.78 |
| | do | North Capitol from G st. to H. | 12-inch. | 354 | .77 | 4.94 | | \$1.84 | | | | 279.36 | | 279.36 | 60.72 | 40.58 | 380.66 |
| | do | North Capitol from M st. to N. | 12-inch. | 283 | .77 | 3.23 | | 1.83 | | | | 222.97 | | 222.97 | 56.16 | 32.39 | 311.52 |
| | do | E st. from Seventh to Eighth. | 12-inch. | 200 | .77 | .62 | | .44 | | | | 155.06 | | 155.06 | 30.08 | 22.53 | 207.67 |
| | do | H st. from Delaware av. to Third. | 12-inch. | 675 | .77 | | 35.43 | | 27.93 | | | 456.39 | | 456.39 | 120.32 | 66.29 | 643.00 |
| | do | I st. from Four-and-a-Half to Sixth. | 12-inch. | 540 | .77 | 3.21 | | 1.91 | | | | 420.92 | | 420.92 | 99.36 | 61.15 | 581.43 |
| | do | Virginia av. from Eighth to Ninth. | 12-inch. | 162 | .77 | | 4.80 | | 9.41 | | | 110.53 | | 110.53 | 27.84 | 16.06 | 154.43 |
| | do | M st. from Second to Third. | 12-inch. | 232 | .77 | 1.53 | | .95 | | | | 181.12 | | 181.12 | 40.32 | 26.31 | 247.75 |
| | do | Third st. from L to M. | 12-inch. | 302 | .77 | | | | .66 | | | 231.88 | | 231.88 | 53.12 | 33.68 | 318.68 |
| | do | Seventh st. from C to North Carolina av. | 12-inch. | 400 | .77 | 6.18 | | 3.68 | | | | 317.86 | | 317.86 | 72.16 | 46.17 | 436.19 |
| | do | Eighth st. from A to North Carolina av. | 12-inch. | 195 | .77 | .28 | | .37 | | | | 150.80 | | 150.80 | 34.08 | 21.91 | 206.79 |
| | do | Alley in square 169. | 12-inch. | 209 | .77 | | 12.38 | | 12.49 | | | 136.06 | 3.73 | 139.79 | 35.33 | 20.31 | 195.46 |
| 898 | James McCandlish. | Alley in square 868. | 12-inch. | 320 | .84 | | 35.15 | | 17.38 | | | 216.27 | 7.56 | 223.83 | 57.02 | 32.51 | 313.36 |
| | Due to extra No. of man-holes. | | | | | | | 76.44 | | | | 76.44 | | 76.44 | | 11.10 | 87.54 |
| Total 12-inch. | | | | { 12,458
320 } | .77 }
.84 } | 41.23 | 244.77 | 108.32 | 148.71 | \$115.20 | 1.20 | 9,733.93 | 437.71 | 10,171.64 | 2,299.74 | 1,477.60 | 13,948.98 |
| 826 | W. H. Mohler. | New Hampshire av. from northeast cor. to R st. | 15-inch. | 9 | .81 | | | | | | | 7.29 | | 7.29 | 2.25 | 1.06 | 10.60 |
| | do | E st. from North Capitol to New Jersey av. | 15-inch. | 19 | .81 | | .88 | | | | | 14.51 | | 14.51 | 4.75 | 2.11 | 21.37 |
| | do | P st. from Columbia to Tenth. | 15-inch. | 116 | .81 | 3.40 | | 1.91 | | | | 99.27 | | 99.27 | 37.36 | 14.42 | 151.05 |

| | | | | | | | | | | | | | | |
|---|---|---------|---------------|-------------|-------|-------|-------|-------|--------|-------|--------|--------|--------|----------|
| do | Prospect st. from Thir-
ty-third to Thirty-
fourth. | 15-inch | 495 | .81 | 8.19 | 4.11 | | 16.28 | 429.53 | | 429.53 | 160.89 | 62.40 | 652.82 |
| do | Sst. from Fifth to Sixth. | 15 inch | 227 | .81 | ..... | 5.32 | ..... | ..... | 175.17 | ..... | 375.17 | 47.66 | 25.45 | 248.28 |
| Total 15-inch | | | 866 | .81 | 11.59 | 6.20 | 3.38 | 16.28 | 725.77 | ..... | 725.77 | 252.91 | 105.44 | 1,084.12 |
| 826 | W. H. Mohler | 18-inch | 511 | .87 | 33.04 | ..... | 18.52 | 1.50 | 497.63 | ..... | 497.63 | 293.96 | 72.29 | 863.88 |
| 833 | B. Cudmore, ad-
ministratrix. | 18-inch | 24 | 1.14 | | | | | 27.36 | 43.00 | 70.36 | 19.48 | 10.22 | 100.06 |
| Total 18-inch | | | { 511
24 } | .87
1.14 | 33.04 | | 18.52 | 1.50 | 524.99 | 43.00 | 567.99 | 313.44 | 82.51 | 963.94 |
| 826 | W. H. Mohler | 20-inch | 309 | .97 | 12.40 | ..... | 6.03 | 16.66 | 334.82 | ..... | 334.82 | 235.35 | 48.64 | 618.81 |
| Prospect st. from Poto-
mac to Thirty-third. | | | | | | | | | | | | | | |

Brick sewers.

| | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|--------|-------|--------|--------|-------------------|-------|-------|-----------|-------|-----------|--------|----------|-----------|
| 820 | M. Hines | Thirty-third st. from
P to R. | 680 | 3.50 | | 32.33 | { 7.88
14.16 } | 48.90 | 40.70 | 2,459.31 | 49.68 | 2,508.99 | 146.04 | 364.48 | 3,019.51 |
| do | do | Thirty-fifth st. from P
to Q. | 350 | 3.50 | 11.46 | | 2.52 | 8.73 | | 1,247.71 | 10.00 | 1,257.71 | 47.77 | 182.71 | 1,488.19 |
| do | do | Tennessee av. from D
st. to F. | 526½ | 4.50 | 63.77 | | 17.52 | | | 2,450.54 | | 2,450.54 | 78.75 | 355.99 | 4,208.06 |
| 824 | Jas. McCand-
lish. | do | 210 | 5.50 | | | | | | 1,155.00 | | 1,155.00 | | 167.78 | 2,953.87 |
| 820 | M. Hines | Fifteenth st. from Ten-
nessee av. to G. | 529 | 5.07 | | 153.55 | | 16.47 | | 2,512.01 | | 2,512.01 | 76.95 | 364.91 | 2,953.87 |
| do | do | Twelfth st. from Penn-
sylvania av. to South
Carolina av. | 400 | 7.00 | | 97.77 | | 12.96 | 4.50 | 2,693.77 | | 2,693.77 | 55.11 | 391.30 | 3,140.13 |
| do | do | do | 1,147 | 4.50 | 193.46 | ..... | 43.68 | ..... | ..... | 5,398.64 | ..... | 5,398.64 | 159.66 | 784.25 | 6,342.55 |
| Total vari-
ous sizes | | | 3,842½ | | 268.69 | 283.65 | 85.76 | 29.43 | 40.70 | 17,916.98 | 59.68 | 17,976.66 | 584.28 | 2,611.42 | 21,152.36 |

Business.

| Section. | Location. | No. | Contract rate. | Cost of connections. | Cost of contract work. | Cost of extra work. | Amount paid contractor. | Cost of pipe for connecting. | Average cost of inspection. | Total cost. |
|-----------------|--|-----|----------------|----------------------|------------------------|---------------------|-------------------------|------------------------------|-----------------------------|-------------|
| Northwest.... | N.W. cor. Twenty-second and P sts. | 1 | \$47.75 | \$28.26 | \$76.01 | ..... | \$76.01 | \$6.72 | \$11.04 | \$93.77 |
| | N.E. cor. Twenty-second and P sts. | 1 | 47.75 | 8.08 | 55.83 | ..... | 55.83 | 1.92 | 8.12 | 65.87 |
| | N.E. cor. Twenty-first and P sts., on Twenty-first | 1 | 47.75 | 2.69 | 50.44 | ..... | 50.44 | .64 | 7.32 | 58.40 |
| | N.E. cor. Twenty-first and P sts., on P | 1 | 47.75 | 2.02 | 49.77 | ..... | 49.77 | .48 | 7.23 | 57.48 |
| | S.W. cor. Tenth and S sts., on S | 1 | 47.75 | 2.02 | 49.77 | ..... | 49.77 | .48 | 7.23 | 57.48 |
| | S.W. cor. Q and Marion sts., on Q | 1 | 47.75 | 24.90 | 72.65 | ..... | 72.65 | 5.92 | 10.55 | 89.12 |
| | S.W. cor. N. Capitol and L sts., on N. Capitol | 1 | 47.75 | ..... | 47.75 | ..... | 47.75 | ..... | 6.94 | 54.69 |
| | N.W. cor. N. Capitol and K sts., on K | 1 | 47.75 | ..... | 47.75 | ..... | 47.75 | ..... | 6.94 | 54.69 |
| | S.W. cor. N. Capitol and K sts., on K | 1 | 47.75 | ..... | 47.75 | ..... | 47.75 | ..... | 6.94 | 54.69 |
| | N.E. cor. N. Capitol and K sts., on N. Capitol | 1 | 47.75 | ..... | 47.75 | ..... | 47.75 | ..... | 6.94 | 54.69 |
| | S. side E st., bet. N. Capitol and First sts. W | 1 | 47.75 | 10.09 | 57.84 | \$7.70 | 65.54 | 2.40 | 9.52 | 77.46 |
| | N. side E st., bet. N. Capitol and First sts. W | 1 | 47.75 | 2.02 | 49.77 | 4.00 | 53.77 | .48 | 7.81 | 62.06 |
| | S. side Louisiana av., bet. Ninth and Tenth sts. | 1 | 47.75 | 35.67 | 83.42 | ..... | 83.42 | 8.48 | 12.12 | 104.02 |
| | N. side G st., bet. N. Capitol and First sts. E | 1 | 47.75 | 9.42 | 57.17 | ..... | 57.17 | 2.24 | 8.30 | 67.71 |
| Northeast | S. side G st., bet. N. Capitol and First sts. E | 1 | 47.75 | 16.15 | 63.90 | ..... | 63.90 | 3.84 | 9.28 | 77.02 |
| | S.W. cor. G and N. Capitol sts | 1 | 47.75 | 15.48 | 63.23 | ..... | 63.23 | 3.68 | 9.19 | 76.10 |
| | S.E. cor. G st. and Delaware av., on G | 1 | 47.75 | 14.13 | 61.88 | ..... | 61.88 | 3.36 | 8.99 | 74.23 |
| | S.W. cor. I and Fourth sts., on Fourth | 1 | 47.75 | 12.11 | 59.86 | ..... | 59.86 | 2.88 | 8.69 | 71.43 |
| | N.E. cor. K and Fifth sts., on Fifth | 1 | 47.75 | 8.08 | 55.83 | ..... | 55.83 | 3.04 | 8.11 | 66.98 |
| | N.E. cor. L and Fifth sts., on Fifth | 1 | 47.75 | 12.79 | 60.54 | ..... | 60.54 | 1.92 | 8.79 | 71.25 |
| | S.E. cor. C and Seventh sts., on C | 1 | 47.75 | 6.06 | 53.81 | ..... | 53.81 | 1.44 | 7.82 | 63.07 |
| | S.E. cor. C and Eighth sts., on C | 1 | 47.75 | 6.06 | 53.81 | ..... | 53.81 | 1.44 | 7.82 | 63.07 |
| | S.E. cor. C and Tenth sts., on C | 1 | 47.75 | 14.81 | 62.56 | ..... | 62.56 | 3.52 | 9.09 | 75.17 |
| | N.E. cor. C and Tenth sts., on C | 1 | 47.75 | 16.15 | 63.90 | ..... | 63.90 | 3.84 | 9.28 | 77.02 |
| | NW. cor. C and Seventh sts., on C | 1 | 47.75 | 18.17 | 65.92 | ..... | 65.92 | 4.32 | 9.57 | 79.81 |
| | NE. cor. Virginia av. and Seventh st | 1 | 47.75 | 42.40 | 90.15 | ..... | 90.15 | 10.08 | 13.09 | 113.32 |
| | Intersection Virginia av. and I sts | 1 | 47.75 | 4.71 | 52.46 | ..... | 52.46 | 1.12 | 7.62 | 61.20 |
| | NE. cor. Virginia av. and Fifth st., on Fifth | 1 | 47.75 | 14.13 | 61.88 | ..... | 61.88 | 3.36 | 8.99 | 74.23 |
| Southeast | Intersection Virginia av. and Fifth st., on Fifth | 1 | 47.75 | 55.86 | 103.61 | ..... | 103.61 | 13.28 | 15.05 | 131.94 |
| | do | 1 | 47.75 | 55.86 | 103.61 | ..... | 103.61 | 13.28 | 15.05 | 131.94 |
| | NE. cor. Virginia av. and Fourth st., on Fourth | 1 | 47.75 | 32.30 | 80.05 | ..... | 80.05 | 7.68 | 11.63 | 99.36 |
| | SE. cor. A and Seventh sts., on A | 1 | 47.75 | 6.06 | 55.83 | ..... | 55.83 | 1.92 | 8.11 | 65.86 |
| | N. side C near First | 1 | 47.75 | 5.38 | 53.81 | ..... | 53.81 | 1.44 | 7.82 | 63.07 |
| | NW. cor. Second and C sts | 1 | 47.75 | 2.02 | 49.77 | ..... | 49.77 | .48 | 7.72 | 62.13 |
| | NE. cor. Second and C sts | 1 | 47.75 | 2.02 | 49.77 | ..... | 49.77 | .48 | 7.23 | 57.48 |
| | SE. cor. Second and C sts | 1 | 47.75 | 62.59 | 110.34 | ..... | 110.34 | 14.86 | 16.03 | 141.25 |
| | SW. cor. Second and C sts | 1 | 47.75 | 50.47 | 98.22 | ..... | 98.22 | 12.00 | 14.27 | 124.49 |
| | SW. cor. Second and E sts | 1 | 47.75 | 17.50 | 65.25 | ..... | 65.25 | 4.16 | 9.48 | 78.89 |
| | NW. cor. Third and D sts., on Third | 1 | 47.75 | 34.32 | 82.07 | ..... | 82.07 | 8.16 | 11.92 | 102.15 |
| | NW. cor. Third and G sts., on G | 1 | 47.75 | 11.44 | 59.19 | ..... | 59.19 | 2.72 | 8.60 | 70.51 |
| | SW. cor. Third and G sts., on G | 1 | 47.75 | 4.71 | 52.46 | ..... | 52.46 | 1.12 | 7.62 | 61.20 |
| | NW. cor. Seventh and E sts., on E | 1 | 47.75 | 10.09 | 57.84 | ..... | 57.84 | 2.40 | 8.40 | 68.64 |
| | | 1 | 47.75 | | | | | | | |

| | | | | | | | | | |
|---|---|----------|--------|----------|-------|----------|--------|--------|----------|
| SW. cor. Seventh and E sts., on E | 1 | 47.75 | 10.09 | 57.84 | | 57.84 | 2.40 | 8.40 | 68.64 |
| NE. cor. Tenth and E sts., on Tenth | 1 | 47.75 | 2.02 | 49.77 | | 49.77 | .48 | 7.23 | 57.48 |
| NE. cor. Thirteenth and E sts., on E | 1 | 47.75 | 8.08 | 55.83 | | 55.83 | 1.92 | 8.11 | 65.86 |
| NE. cor. Thirteen-and-a-half and E sts., on E | 1 | 47.75 | 7.40 | 55.15 | | 55.15 | 1.76 | 8.02 | 64.93 |
| W. side C st., near First | 1 | 47.75 | 72.68 | 120.43 | | 120.43 | 17.28 | 17.49 | 155.20 |
| Making closures | | | | | 40.00 | 40.00 | | 5.81 | 45.81 |
| Furnishing four man-hole frames and covers | | | | | 26.40 | 26.40 | | 3.83 | 30.23 |
| | | 2,292.00 | 785.37 | 3,077.37 | 78.10 | 3,155.47 | 186.72 | 458.38 | 3,800.57 |

Recapitulation, main and pipe sewer.

| No. | Name. | Location. | Size. | Length
(linear
feet). | Price per
foot. | Excavation. | | Brick masonry. | | Rock ex-
cava-
tions. | Lumber
left in
trench. |
|------------|---|---|---|-----------------------------|--|------------------|-------------------|-------------------|-------------------|-----------------------------|------------------------------|
| | | | | | | Excess. | Deficit. | Excess. | Deficit. | | |
| 826
898 | W. H. Mohler.....
James McCandlish.....
Total 12-inch..... | Various streets
Square 868 | 12-inch.....
12-inch..... | 12,458
320 | \$0.77
.84 | \$41.23
..... | \$209.62
35.15 | \$108.32
..... | \$131.33
17.38 | \$115.20
..... | \$1.20
..... |
| 826 | W. H. Mohler..... | Various streets | 15-inch..... | 866 | .81 | 41.23
11.59 | 244.77
6.20 | 108.32
6.02 | 148.71
3.38 | 115.20
16.28 | 1.20
..... |
| 826
833 | W. H. Mohler.....
Bridget Cudmore, ad-
ministratrix.
Total 18-inch | Columbia street from P to Q.....
Water street from crossing to Fourteenth..... | 18-inch.....
18-inch..... | 511
24 | .87
1.14 | 33.04
..... | | 18.52
..... | | | 1.50
..... |
| 826 | W. H. Mohler..... | Prospect street from Potomac to Thirty-third.. | 20-inch | 309 | .97 | 33.04
12.40 | | 18.52
6.03 | | | |
| 820 | M. Hines | Brick sewers (various streets) | 2.25 by 3.37
2.50 by 3.75
2.75 by 4.125
3.50 by 5.25
4.50 by 6.75
3.00 by 4.50 | 3,313½ | { 3.50
3.50
4.50
5.50
7.00
5.07 | 268.69 | 130.10 | 85.76 | 12.96 | 40.70 | 62.13 |
| 824 | James McCandlish.....
Total (various
sizes. | Tennessee avenue from E street to F | | 529 | | | 153.55 | | 16.47 | | |
| | | | | 3,842½ | ..... | 268.69 | 283.65 | 85.76 | 29.43 | 40.70 | 62.13 |

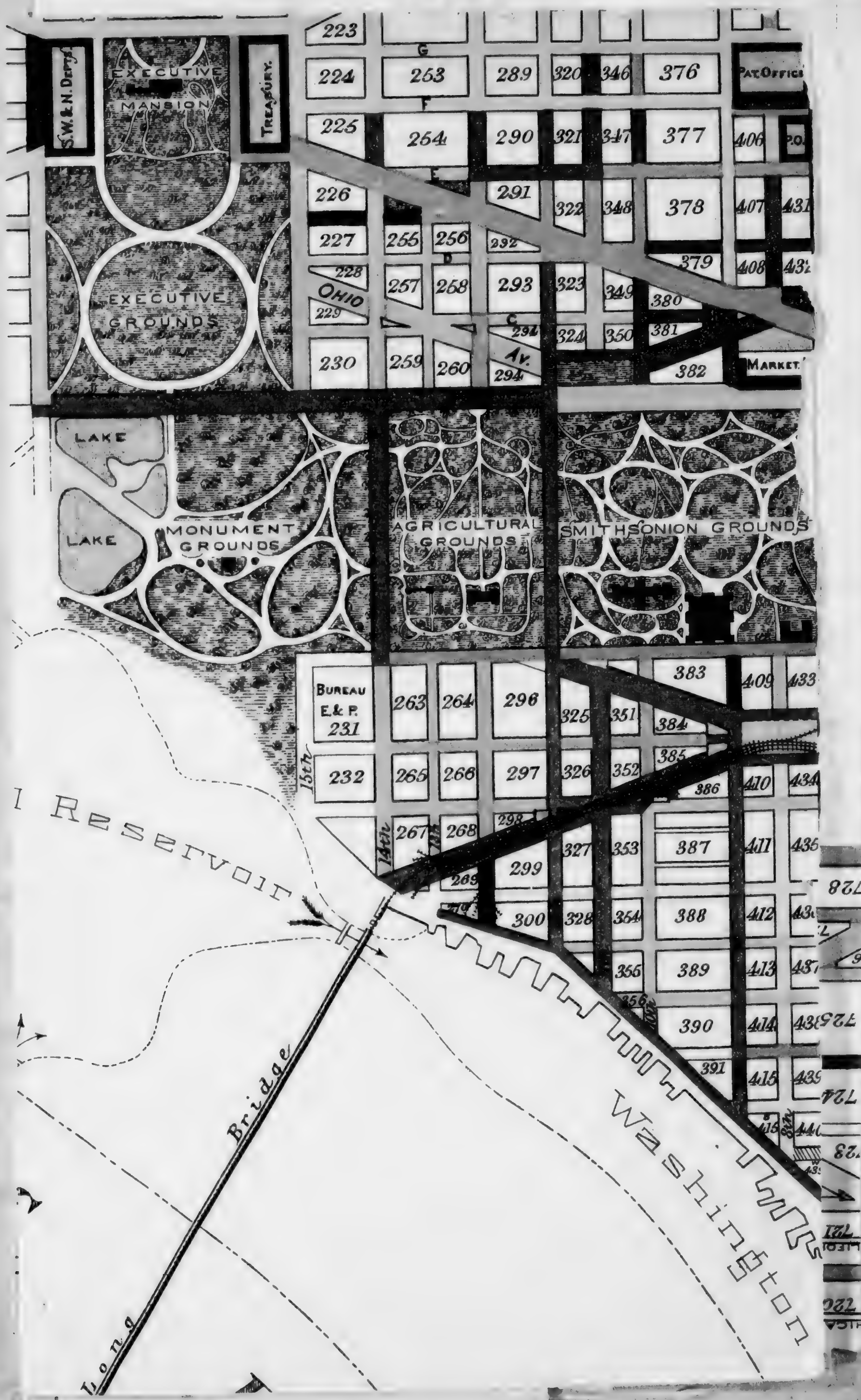
Recapitulation, main and pipe sewer—Continued.

| No. | Name. | Location. | Basins constructed. | Contract price. | Connections (linear feet). | Cost of connections. | Cost of work per contract. | Cost of extra work. | Amount paid contractor. | Cost of material. | Cost of inspection. | Total cost. |
|-----|----------------------------------|--|---------------------|-----------------|----------------------------|----------------------|----------------------------|---------------------|-------------------------|-------------------|---------------------|-------------|
| 826 | W. H. Mohler..... | Various streets | ..... | ..... | ..... | ..... | \$9,517.06 | \$430.15 | \$9,947.81 | \$2,242.72 | \$1,445.09 | \$13,635.62 |
| 898 | James McCandlish..... | Square 868 | ..... | ..... | ..... | ..... | 216.27 | 7.56 | 223.83 | 57.02 | 32.51 | 313.36 |
| | Total ..... | ..... | ..... | ..... | ..... | ..... | 9,733.93 | 437.71 | 10,171.64 | 2,299.74 | 1,477.60 | 13,948.98 |
| 826 | W. H. Mohler..... | Various streets | ..... | ..... | ..... | ..... | 725.77 | ..... | 725.77 | 252.91 | 105.44 | 1,084.12 |
| 826 | W. H. Mohler..... | Columbia street from P to Q | ..... | ..... | ..... | ..... | 497.63 | ..... | 497.63 | 293.96 | 72.29 | 863.88 |
| 833 | Bridget Cudmore, administrative. | Water street from crossing to Fourteenth | ..... | ..... | ..... | ..... | 27.36 | 43.00 | 70.36 | 19.48 | 10.22 | 100.06 |
| | Total ..... | ..... | ..... | ..... | ..... | ..... | 524.99 | 43.00 | 567.99 | 313.44 | 82.51 | 963.94 |
| 826 | W. H. Mohler..... | Prospect street from Potomac to Thirty-third | ..... | ..... | ..... | ..... | 334.82 | ..... | 334.82 | 235.35 | 48.64 | 618.81 |
| 820 | M. Hines..... | Brick sewers (various streets) | ..... | ..... | ..... | ..... | 15,404.97 | 59.68 | 15,464.65 | 487.33 | 2,246.51 | 18,198.49 |
| 824 | James McCandlish..... | Tennessee avenue from E street to F | ..... | ..... | ..... | ..... | 2,512.01 | ..... | 2,512.01 | 76.95 | 364.91 | 2,953.87 |
| | Total ..... | ..... | ..... | ..... | ..... | ..... | 17,916.98 | 59.68 | 17,976.66 | 564.28 | 2,611.42 | 21,152.36 |
| 826 | W. H. Mohler..... | Various streets | 48 | \$47.75 | 1,167 | \$785.37 | 3,077.37 | 78.10 | 3,155.47 | 186.72 | 458.38 | 3,800.57 |
| | Total ..... | ..... | ..... | ..... | ..... | ..... | 32,213.86 | 618.49 | *32,932.35 | 3,852.44 | 4,783.99 | 41,568.78 |

* Includes an item of \$75.06 for repairs to concrete pavements on various streets, and paid to H. L. Cranford.

Work done by day labor, main and pipe sewers.

| No. of order. | Location. | Pipe sewers (length in linear feet). | | | | | | Brick sewers 4.5 feet by 6.75 feet. | Man-holes. | Basins. | Branches. | Cost of labor. | Cost of material. | Total cost. |
|---------------|---|--------------------------------------|---------|----------|----------|----------|----------|-------------------------------------|------------|---------|-----------|----------------|-------------------|-------------|
| | | 6-inch. | 8-inch. | 12-inch. | 15-inch. | 18-inch. | 24-inch. | | | | | | | |
| 726 | B st. bet. Third and Four-and-a-half SW | | | | | | | | | 1 | | \$24.75 | \$24.40 | \$49.15 |
| 262 | Corcoran st. bet. Thirteenth and Fourteenth NW, sq 240. | | 84 | 15 | | | | | | 1 | | 41.62 | 19.04 | 60.66 |
| 259 | Twenty-ninth and Dumbarton | | | 12 | | | | | | 1 | | 25.50 | 14.11 | 39.61 |
| 240 | D and South Capitol sts | | 125 | | | | | | | | | 100.20 | 13.03 | 113.23 |
| 560 | Georgetown pumping station | 48 | | | | 83½ | | | 3 | 5 | | 222.68 | 131.38 | 354.06 |
| 649 | {K between Fourth and Fifth sts. NE | | | {48} | | | | | | 2 | | 68.35 | 52.77 | 121.12 |
| | {Fourth bet. H and I sts. NE | | | {21} | | | | | | | | | | |
| 487 | North Capitol and K sts NW | | | | | 105 | | | | | | 48.56 | 36.15 | 84.71 |
| 480 | Valley and Q sts. NW | | | | | | | | 2 | | | 35.25 | 15.48 | 50.73 |
| 52 | U bet. Ninth and Tenth sts. NW | | | 100 | | | | | | | | 163.89 | 53.11 | 217.00 |
| 207 | Massachusetts ave. and G st. NW | | 57 | | | | | 1 | | 1 | | 31.12 | 40.06 | 71.18 |
| 716 | Rhode Island ave. bet. Seventh and Eighth NW | | | 9 | | | | | 1 | 1 | | 25.62 | 22.38 | 48.00 |
| 645 | First and G sts. NW | 6 | | | | 146 | | | 3 | 1 | | 8.25 | 11.22 | 19.47 |
| 375 | Twelfth bet. M and N sts. SE | | | | | | | 260 | | | | 1, 123.53 | 1, 261.89 | 2, 385.42 |
| 647 | Fourteenth bet. Maryland ave. and D SW | | | 21 | | | | | | 1 | | 16.50 | 24.05 | 40.55 |
| 452 | Eighteenth and Madison NW | | 45 | | | | | | | 1 | | 10.31 | 15.66 | 25.97 |
| 577 | Square No. 85, Georgetown | | | | | | 218 | | 1 | 1 | 6 | 616.92 | 452.81 | 1, 069.73 |
| 716½ | Square No. 158 NW | | | | | | | | | 1 | | 19.25 | 22.38 | 41.63 |
| 449 | Square No. 218 NW | | 27 | 234½ | | | | | 2 | 2 | 3 | 265.62 | 82.59 | 348.21 |
| 662 | Square No. 445 NW | | 18 | | | | | | | 1 | | 32.18 | 20.16 | 52.34 |
| 644 | Square No. 697 SE. | | | 396 | | | | | 3 | | 21 | 444.82 | 196.54 | 641.36 |
| 27 | Square No. 753 NE. | 21 | | | | | | | | 1 | | 22.42 | 17.54 | 39.96 |
| 727 | Square No. 868 NE. | | | | | | | | | 1 | | 8.25 | 21.32 | 29.57 |
| | Total..... | 75 | 356 | 856½ | | 334½ | 218 | 260 | 13 | 24 | 30 | 3, 355.59 | 2, 548.07 | 5, 903.66 |



S.W. & N. DEPT

EXECUTIVE MANSION

TREASURY

EXECUTIVE GROUNDS

| | | | | | | |
|----------|-----|-----|---------|-----|-----|-------------|
| 223 | | | | | | |
| 224 | 253 | 289 | 320 | 346 | 376 | PAT. OFFICE |
| 225 | 254 | 290 | 321 | 347 | 377 | 406 P.O. |
| 226 | | 291 | 322 | 348 | 378 | 407 431 |
| 227 | 255 | 256 | 292 | | 379 | 408 432 |
| 228 | 257 | 258 | 293 | 323 | 349 | 380 |
| OHIO 229 | | | 294 | 324 | 350 | 381 |
| 230 | 259 | 260 | Av. 294 | | 382 | MARKET |

LAKE

LAKE

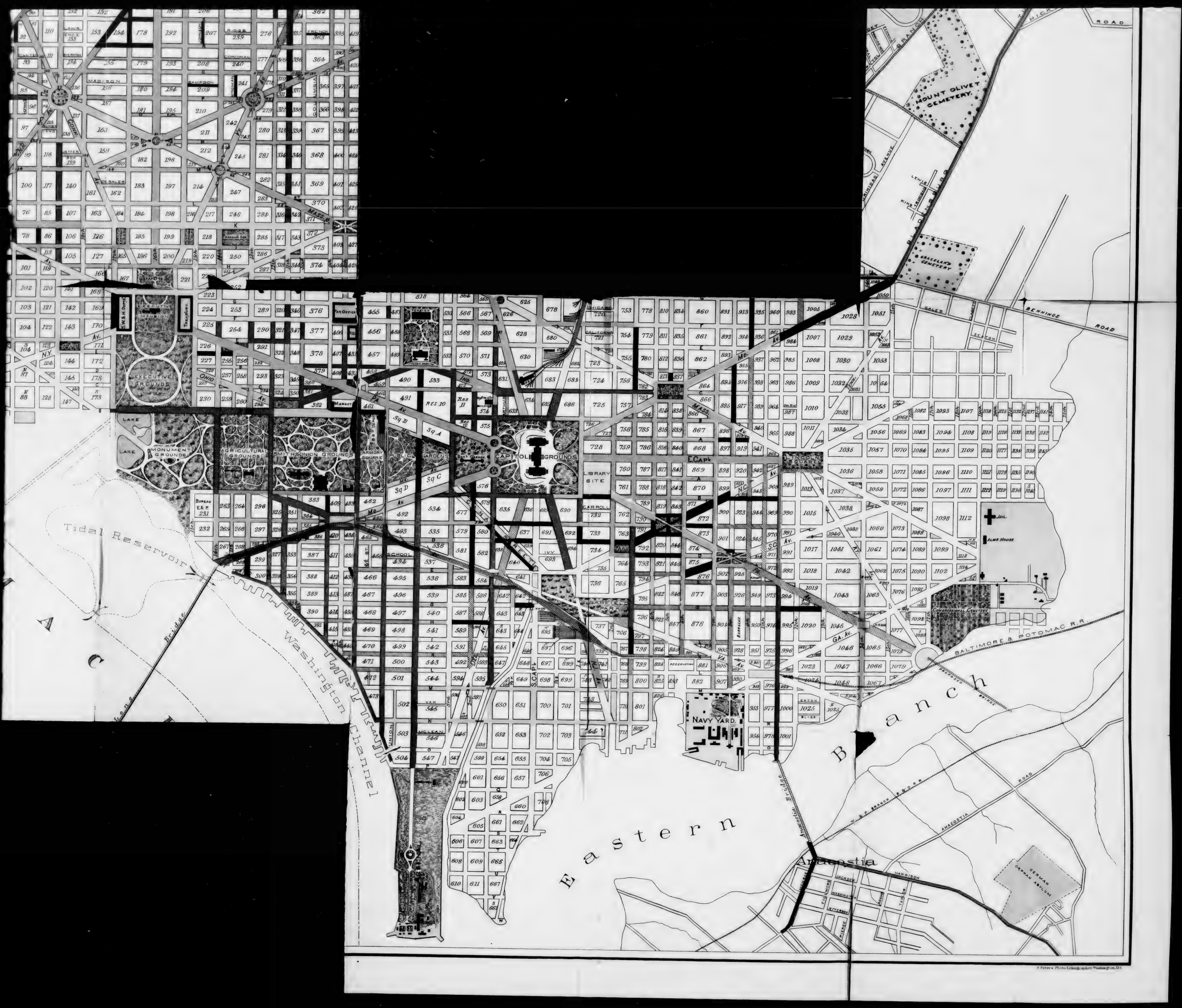
MONUMENT GROUNDS

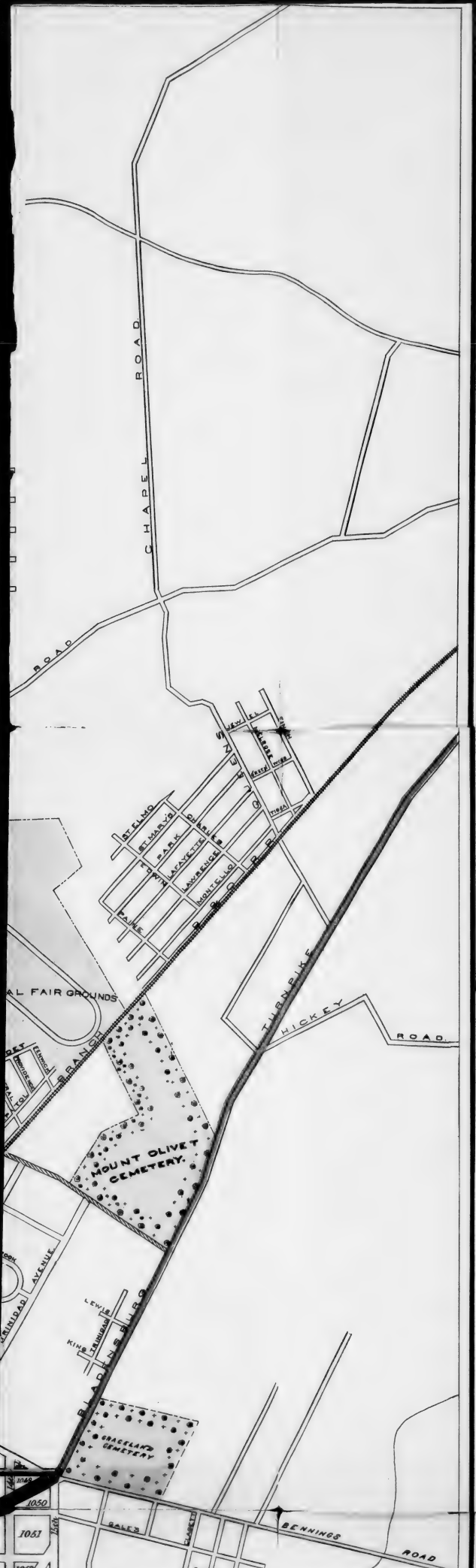
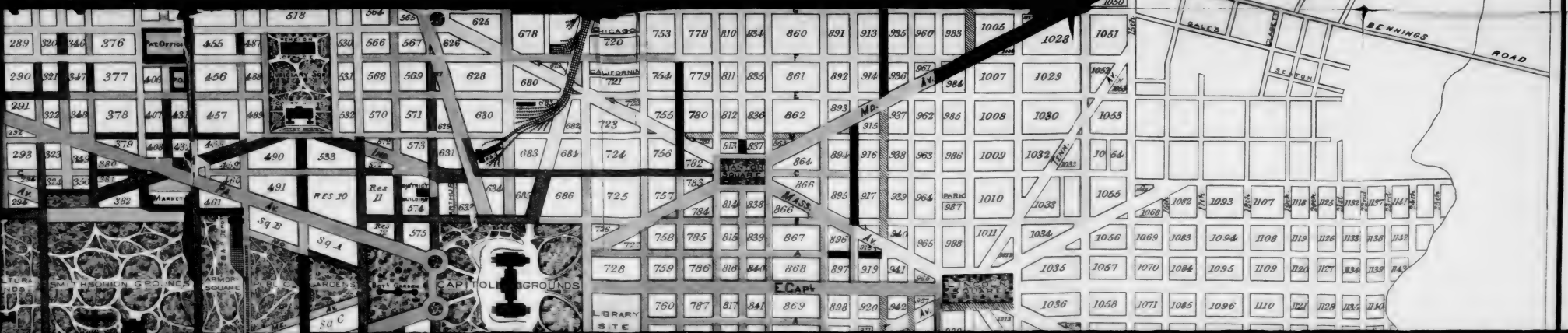
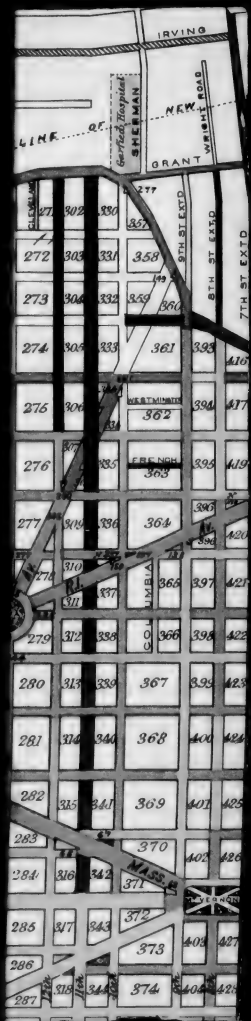
AGRICULTURAL GROUNDS

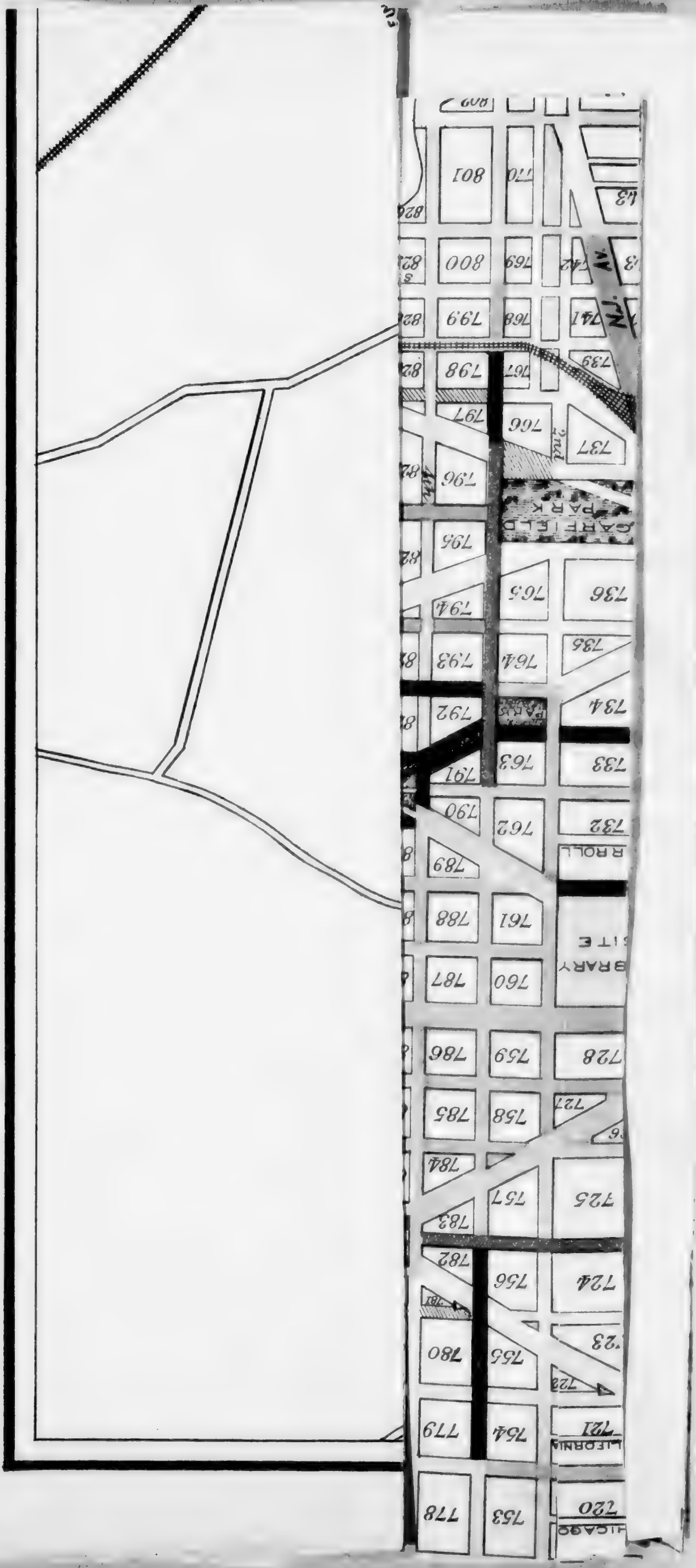
SMITHSONIAN GROUNDS

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Work done by day labor replacing obstructed sewers.

| No. of order. | Location. | Pipe sewers, length in feet. | | Man-holes. | Branches. | Cost of labor. | Cost of material. | Total cost. |
|---------------|---|------------------------------|-------|------------|-----------|----------------|-------------------|-------------|
| | | 12-inch. 15-inch. 20-inch. | | | | | | |
| 665 | K st. N.E., bet. North Capitol and First sts. E | | *170 | 32 | 1 | \$489.71 | \$156.11 | \$645.82 |
| 534 | Rhode Island ave. bet. Sixth and Seventh sts. NW | | 30 | | 1 | 65.59 | 38.73 | 104.32 |
| 292 | O st. N.W., bet. Fifteenth and Sixteenth sts. NW | | 150 | | | 115.10 | 25.90 | 141.00 |
| 293 | Thirteen-and-a-half st. SW., bet. C and D sts., west side | | 841 | 328 | | 1,479.68 | 449.92 | 1,929.60 |
| 638 | Thirteen-and-a-half st. SW., bet. C and D sts., east side | | 180 | | 1 | 124.21 | 75.08 | 199.29 |
| 643 | Twentieth st. N.W., bet. O and P sts | | 142 | | 1 | 218.75 | 68.88 | 287.63 |
| | Alley in square No. 329, NW | | | | 4 | 2,493.04 | 814.62 | 3,307.66 |
| | Total | | 1,313 | 528 | 32 | | | |

Suburban sewers (work done by day labor).

| No. of order | Location. | Pipe sewers (length in feet). | | Man-holes. | Branches. | Cost of labor. | Cost of material. | Total cost. |
|--------------|--|-------------------------------|------------------------|------------|-----------|----------------|-------------------|-------------|
| | | 12-inch. 18-inch. | Concrete sewer by 3.6. | | | | | |
| 650 | Euclid Place, between Fourteenth and Fifteenth streets, NW | 267 | | 2 | 16 | \$362.51 | \$121.44 | \$483.95 |
| 556 | Linden street, between Boundary and Maple | | 78 | 1 | | 149.25 | 65.14 | 214.39 |
| 275 | Polk street, Anacostia | | 680 | | | 1,248.55 | 896.26 | 2,144.81 |
| | Total | 267 | 78 | 3 | 16 | 1,760.31 | 1,082.84 | 2,843.15 |

Cleaning and repairing sewers and basins.

| | | | | | |
|--|-------------|----------|----------------------------------|--------|-----|
| Appropriation for cleaning and repairing sewers and basins | | \$30,000 | Receiving-basins repaired | number | 265 |
| Pipe sewer cleaned | linear feet | 133,639 | Receiving basins built | do | 28 |
| Brick sewer cleaned | do | 4,270 | Man-holes repaired | do | 103 |
| Pipe sewer laid or relaid | do | 1,025 | Man-holes built | do | 21 |
| Brick sewer repaired | do | 235 | New blue-stone covers set | do | 3 |
| Receiving-basins cleaned | number | 37,552 | Catch-basins cleaned | do | 3 |
| | | | Minor repairs to sewers | do | 395 |
| | | | * 200 feet 15-inch pipe cleaned. | | |
| | | | † 2 man-holes raised to grade. | | |
| | | | ‡ 150 feet 12-inch pipe cleaned. | | |

| | | | | | | | | | | | | | | | | |
|-----|--------------|--------------------------------------|--------|----------|-------|-------|--------|--------|----------|-------|----------|-----------|----------|-----------|----------|--------------------|
| 832 |do..... | N. J. ave. ex. from Irving to Grant. | 4 by 6 | 1,127.20 | 4.87 | ..... | 643.03 | ..... | 9.24 | ..... | 9,176.85 | 203.25 | 9,380.10 | 1,117.05 | 1,752.76 | 12,249.91 |
| | Total | ..... | ..... | ..... | ..... | ..... | 559.52 | 689.90 | 1,060.79 | 35.38 | 50.21 | 20,878.65 | 213.68 | 21,064.61 | 5,020.99 | 3,936.00 30,021.60 |

Replacing obstructed sewers.

| | | | | | | | | | | | | | | | | |
|-----|------------------|--------------------------------------|---------|-------|-------|--------|-------|--------|-------|-------|----------|-------|----------|----------|-------|----------|
| 826 | W. H. Mohler | R. I. ave. from 6th to 7th. | 12-inch | 261 | .77 | .81 | ..... | ..... | 1.62 | ..... | 200.16 | ..... | 200.16 | 50.44 | 5.56 | 256.16 |
| 832 | James McCandlish | S. st. from 17th to 18th. | 12-inch | 865 | .87 | 19.25 | ..... | 10.08 | ..... | 4.50 | 786.38 | ..... | 786.38 | 146.94 | 21.87 | 955.19 |
| 826 | W. H. Mohler | 13th st. from Q to R. | 12-inch | 99 | .77 | 1.20 | ..... | 1.40 | ..... | ..... | 78.83 | ..... | 78.83 | 17.28 | 2.20 | 98.31 |
| 826 | do | A. st. from 3d to 4th. | 12-inch | 336 | .77 | ..... | 6.49 | ..... | 6.61 | ..... | 245.62 | ..... | 245.62 | 60.48 | 6.83 | 312.93 |
| 826 | do | East Capitol st. from 3d to 4th. | 12-inch | 550 | .77 | 22.01 | ..... | 23.22 | ..... | ..... | 468.73 | ..... | 468.73 | ..... | ..... | ..... |
| 826 | do | East Capitol st. from 6th to 7th. | 12-inch | 550 | .77 | 32.48 | ..... | 17.05 | ..... | ..... | 473.03 | ..... | 473.03 | 403.68 | 33.68 | 1,648.48 |
| 826 | do | East Capitol st. from 7th to 8th. | 12-inch | 321 | .77 | 14.47 | ..... | 7.72 | ..... | ..... | 269.36 | ..... | 269.36 | ..... | ..... | ..... |
| 826 | do | ..... | ..... | ..... | ..... | ..... | ..... | 95.55 | ..... | ..... | 95.55 | ..... | 95.55 | ..... | 2.66 | 98.21 |
| | Total | ..... | ..... | 9,982 | ..... | 90.22 | 6.49 | 155.02 | 8.23 | 4.50 | 2,617.66 | ..... | 2,617.66 | 678.82 | 72.80 | 3,369.28 |
| 826 | W. H. Mohler | 13th st. from Q to R. | 15-inch | 269 | .81 | 4.06 | ..... | 2.73 | ..... | ..... | 224.68 | ..... | 224.68 | 76.85 | 7.23 | 344.02 |
| 897 | J. J. Cudmore | K. st. from North Capitol to 1st NE. | 18-inch | 465 | 1.09 | 41.57 | ..... | 17.82 | ..... | 1.26 | 567.50 | ..... | 567.50 | 266.85 | 15.97 | 887.21 |
| | Total | ..... | ..... | ..... | ..... | 135.85 | 6.49 | 175.57 | 8.23 | 5.76 | 3,409.84 | 42.14 | 3,451.98 | 1,022.53 | 96.00 | 4,570.51 |

Sewer for Bureau of Engraving and Printing.

| | | | | | | | | | | | | | | | | |
|-----|----------------------------|---|---------|-------|------|-------|-------|-------|-------|-------|----------|-------|----------|--------|-------|----------|
| 833 | B. Cudmore, administrator. | Water and 15th sts. S. W. from 14th to C. | 18-inch | 1,076 | 1.14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| | | 15th st. from B to C. | 15-inch | 470 | .98 | 25.10 | ..... | 1.20 | ..... | 30.69 | 1,694.03 | 7.38 | 1,701.41 | 706.83 | 93.00 | 2,501.24 |

* \$30.64 amount deducted for repairs to concrete pavement.

† Due to extra man-holes.

‡ \$30.66 from contractor to repair cut in concrete pavements.

RECAPITULATION REPLACING OBSTRUCTED SEWERS.

| Number. | Contractor. | Location. | Size. | Length in feet. | Price per foot. | Variations in excavations. | | Variations in masonry. | | Lumber left in trench. | Cost of work. | Cost of extra work. | Amount paid contractor. | Cost of material. | Cost of inspection. | Total cost. |
|---------|----------------------|-------------------------------|---------------|-----------------|-----------------|----------------------------|----------|------------------------|----------|------------------------|---------------|---------------------|-------------------------|-------------------|---------------------|-------------|
| | | | | | | Excess. | Deficit. | Excess. | Deficit. | | | | | | | |
| 826 | W. H. Mohler..... | Various streets | 12-inch | 2,117 | \$0.77 | \$80.97 | \$6.49 | \$144.94 | \$3.23 | ..... | \$1,831.28 | ..... | \$1,831.28 | \$531.88 | \$59.93 | \$2,414.09 |
| 832 | Jas. McCandlish..... | S st. from 17th to 18th | 12-inch | 865 | .87 | 19.25 | ..... | 10.08 | ..... | \$1.50 | 706.38 | ..... | 786.38 | 146.94 | 21.87 | 955.19 |
| | Total 12-inch ..... | ..... | ..... | 2,982 | ..... | 100.22 | 6.49 | 155.02 | 8.23 | 4.50 | 2,617.66 | ..... | 2,617.66 | 678.82 | 72.80 | 3,369.28 |
| 826 | W. H. Mohler..... | 13th st. from Q to R | 15-inch | 269 | 81 | 4.06 | ..... | 2.73 | ..... | ..... | 224.68 | \$35.25 | \$30.66 | 76.86 | 7.23 | 344.02 |
| | | NW. .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 29.27 | ..... | ..... | ..... |
| 897 | J. J. Cudmore..... | K st. from North | 18-inch | 465 | 1.09 | 41.57 | ..... | 17.82 | ..... | 1.26 | 567.50 | 6.89 | 574.39 | 266.85 | 15.97 | 857.21 |
| | | Capitol to 1st NE. .... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Total ..... | ..... | ..... | ..... | ..... | 145.22 | 6.49 | 175.57 | 8.23 | 5.76 | 3,409.84 | 42.14 | 3,451.98 | 1,022.53 | 96.00 | 4,570.51 |

* \$30.66 amount deducted for repairs to concrete pavement.

Summary statement of main sewerage system of Washington, D. C.

| Size. | Length. | Size. | Length. |
|---|--------------|--|--------------|
| <i>Circular brick sewers.</i> | | <i>Egg-shape brick, etc., sewers—cont'd.</i> | |
| | <i>Feet.</i> | | <i>Feet.</i> |
| 30 feet diameter..... | 7,280 | 3 feet by 4 feet 6 inches..... | 3,913 |
| 24 feet diameter..... | 492 | 3 feet by 3 feet 6 inches..... | 75 |
| 22 feet diameter..... | 710 | 2 feet 6 inches by 3 feet 6 inches..... | 140 |
| 20 feet diameter..... | 8,543 | 2 feet 9 inches by 4 feet 1½ inches..... | 8,139 |
| 12 feet diameter..... | 2,248 | 2 feet 6 inches by 3 feet 9 inches..... | 6,154 |
| 10 feet diameter..... | 7,788 | 2 feet 4½ inches by 3 feet 7½ inches..... | 675 |
| 9 feet 6 inches diameter..... | 4,635 | 2 feet 3 inches by 3 feet 4½ inches..... | 9,703 |
| 9 feet diameter..... | 4,159 | 2 feet by 3 feet..... | 5,002 |
| 8 feet 6 inches diameter..... | 2,771 | | |
| 8 feet 3 inches diameter..... | 640 | Total | 67,957 |
| 8 feet diameter..... | 5,487 | | |
| 7 feet 9 inches diameter..... | 210 | <i>Pipe sewers.</i> | |
| 7 feet 6 inches diameter..... | 1,830 | 30 inches diameter..... | 575 |
| 7 feet diameter..... | 215 | 24 inches diameter..... | 23,395 |
| 6 feet 6 inches diameter..... | 3,350 | 21 inches diameter..... | 4,240 |
| 6 feet 3 inches diameter..... | 1,192 | 20 inches diameter..... | 5,382 |
| 6 feet diameter..... | 17,733 | 18 inches diameter..... | 133,308 |
| 5 feet 6 inches diameter..... | 5,125 | 15 inches diameter..... | 161,360.5 |
| 5 feet 3 inches diameter..... | 20 | 12 inches diameter..... | 585,685.7 |
| 5 feet diameter..... | 5,391 | 10 inches diameter..... | 1,650 |
| 4 feet 6 inches diameter..... | 10,413 | 8 inches diameter..... | 24,308 |
| 4 feet diameter..... | 26,401 | 6 inches diameter..... | 3,864 |
| 3 feet 9 inches diameter..... | 480 | 4 inches diameter..... | 355 |
| 3 feet 8 inches diameter..... | 1,025 | | |
| 3 feet 6 inches diameter..... | 13,506 | Total | 944,123.2 |
| 3 feet diameter..... | 49,738 | | |
| 2 feet 6 inches diameter..... | 11,417 | <i>Old corporation sewers.</i> | |
| 2 feet 2 inches diameter..... | 518 | Washington: | |
| 2 feet diameter..... | 19,060 | Uncertain (variable)..... | 17,117 |
| 1 foot 6 inches diameter..... | 6,266 | Georgetown: | |
| Total | 218,643 | Old brick (variable)..... | 790 |
| | | East branch (variable)..... | 1,638 |
| <i>Egg shape brick and concrete sewers.</i> | | West branch (variable)..... | 2,285 |
| 15 feet by 17 feet 6 inches..... | 2,010 | Main branch (variable)..... | 1,015 |
| 7 feet by 10 feet 6 inches..... | 900 | | |
| 6 feet 6 inches by 9 feet 9 inches..... | 3,469 | Total | 22,845 |
| 4 feet 6 inches by 6 feet 9 inches..... | 4,516 | | |
| 4 feet by 6 feet..... | 4,162 | Circular brick sewers..... | 218,643 |
| 5 feet 6 inches by 8 feet 9 inches..... | 2,678 | Egg-shape sewers..... | 67,957 |
| 5 feet 6 inches by 8 feet 3 inches..... | 3,095 | Pipe sewers..... | 944,123.2 |
| 5 feet 3 inches by 7 feet 10½ inches..... | 433 | Old corporation sewers..... | 22,845 |
| 3 feet 9 inches by 5 feet 7½ inches..... | 5,195 | | |
| 3 feet 6 inches by 5 feet 3 inches..... | 2,338 | Total length in feet..... | 1,253,568.2 |
| 3 feet 3 inches by 4 feet 10½ inches..... | 5,360 | | |

| Number. | Location. | Pipe sewers. | | | | | | | Concrete and brick sewers. | Man-holes built. | Branches used. | Basins built. | Estimated cost. |
|---------|---|--------------|---------|----------|----------|----------|----------|----------|----------------------------|------------------|----------------|---------------|-----------------|
| | | 6-inch. | 8-inch. | 12-inch. | 15-inch. | 18-inch. | 21-inch. | 24-inch. | | | | | |
| 32 | Conn. ave. bet. R and S NW | | | 46 | | | | | | 1 | 2 | | \$48.00 |
| 87 | Mass. ave. 15 feet w. of 1219 NW | | | | | | | | | 1 | | | 20.00 |
| 59 | Berleith NW | | | | | | | | 437 | 2 | | | 1,498.25 |
| 123 | Euclid bet. 14th and 15th NW | | | 90 | | | | | | | 7 | | 102.50 |
| 63 | I bet. 10th and 11th NW | | | 117 | | | | | | 1 | 4 | | 93.80 |
| 102 | K bet. 33d and 34th NW | | | 30 | | | | | | 1 | 1 | | 71.40 |
| 85 | L bet. N. Cap. and 1st NW | | | 96 | | | | | | 1 | 6 | | 70.00 |
| 101 | M bet. N. Cap. and 1st NW | | | 552 | | | | | | 3 | 19 | | 390.00 |
| 76 | N bet. 9th and 10th NW | | | 99 | | | | | | 1 | 3 | | 70.00 |
| 141 | N bet. 34th and 35th NW | | 24 | | | | | | | | | 1 | 43.10 |
| 120 | N. Cap. bet. K and L NW | | 15 | | | | | | | | 1 | | 16.50 |
| 77 | O bet. 20th and 21st NW | | | 180 | | | | | | 3 | 7 | | 150.00 |
| 5 | R and 21st NW | | | 282 | | | | | | 2 | 5 | | 194.50 |
| 91 | Woodley Lane and Conn. ave NW | | | | | | 175 | | | 1 | | | 180.19 |
| 2 | 3d bet. D and E and D bet. 3d and 4th NW | | | 174 | | | | | | 3 | 5 | | 128.40 |
| 43 | 3d bet. N and O NW | | | 112 | | | | | | 1 | 10 | | 70.00 |
| 129 | 9th bet. O and P NW | | | 220 | | | | | | 1 | 11 | | 148.35 |
| 92 | 9th bet. N and O NW | | | 36 | | | | | | | 2 | | 36.00 |
| 50 | 12th and O NW | | | 198 | | | | | | 2 | 5 | | 129.50 |
| 45 | 12th bet. Q and R NW | | | 150 | | | | | | | 8 | | 180.00 |
| 35 | 12th bet. R and S NW | | | 137 | | | | | | 2 | 4 | | 101.50 |
| 61 | 12th bet. R and S NW | | | 13 | | | | | | | 1 | | 12.00 |
| 82 | 15th NW, remove manhole | | | 24 | | | | | | 1 | | | 25.00 |
| 111 | 17th bet. Q and R NW | | | 228 | | | | | | 3 | 7 | | 224.00 |
| 46 | 19th bet. Pa. ave. and I NW | | | 132 | | | | | | 3 | 4 | | 116.00 |
| 118 | 20th bet. R and S NW | | | 231 | | | | | | 2 | 3 | | 164.50 |
| 34 | 21st bet. R and Boundary NW | | | 160 | | | | | | 1 | 2 | | 112.00 |
| 103 | 28th bet. Q and Road NW | | | 333 | | | | | | 2 | 15 | | 341.70 |
| 9 | 28th bet. Q and Road NW | | | 100 | | | | | | 2 | 2 | | 84.00 |
| 83 | 31st bet. K and M NW | | | 178 | | | | | | 1 | 6 | | 126.00 |
| 23 | Reservation 10 NW | | 150 | | | | | | | 8 | 6 | 2 | |
| 1 | Md. ave. bet. 14th and 15th NE | | | 45 | | | | | | 1 | 3 | | 45.00 |
| 64 | B bet. 1st and 2d, sq. 720 NE | | 78 | 156 | | | | | | 2 | 7 | | 201.00 |
| 57 | B bet. N. Cap. and Del. ave. NE | | | 15 | | | | | | | 1 | | 20.00 |
| 98 | H bet. 13th and 14th, and 14th bet. H and Boundary NE | | | 318 | | | | | | 3 | 15 | | 329.49 |
| 14 | H bet. 14th and Boundary NE | | | 355 | | | | | | 3 | 20 | | 245.00 |
| 52 | Patterson bet. N. Cap. and I NE | | | 150 | | | | | | 1 | 9 | | 106.40 |
| 31 | 4th bet. I and K NE | | | | | 230 | | | | 2 | 10 | | 287.50 |
| 7 | 8th bet. I and K NE | | | 66 | | | | | | 1 | 4 | | 84.00 |
| 122 | 9th bet. B and C NE | | | 168 | | | | | | 1 | 4 | | 186.00 |
| 88 | 13th bet. Md. ave. and F NE | | | 420 | | | | | | 4 | 16 | | 326.25 |
| 27 | B bet. Del. ave. and 1st SW | | | 267 | | | | | | 3 | 18 | | 124.00 |
| 113 | C bet. 14th and 15th SW | | | 250 | | | | | | 2 | 11 | | 208.20 |
| 10 | 10th bet. Va. ave. and CSW | | | 180 | | | | | | 2 | 6 | | 133.00 |
| 42 | Reservation C SW | | | 327 | | | | | | 2 | 40 | | |
| 13 | Ga. ave. bet. 9th and 10th SE | | | 210 | | | | | | 2 | 5 | | 154.00 |
| 117 | S. C. ave. bet. 12th and 13th SE | | | 266 | 51 | | | | | 3 | 11 | | 268.10 |
| 48 | Va. ave. bet. 4th and 5th SE | | | 123 | | | | | | 1 | 7 | | 82.60 |
| 137 | G bet. 10th and 11th SE | | | 84 | | | | | | 1 | 4 | | 59.30 |
| 36 | H bet. Half and S. Cap. SE | | | | 429 | | | | | 3 | 3 | | 344.00 |
| 67 | K bet. 9th and 10th SE | | | 9 | | | | | | | 1 | | 13.50 |
| 41 | K bet. 9th and 10th SE | | | 260 | | | | | | 1 | 10 | | 175.00 |
| 71 | L bet. 8th and 9th SE | | | 159 | | | | | | 1 | 5 | | 92.40 |
| 3 | Alley, square 4 | | 36 | | | | | | | 1 | 2 | | 20.40 |
| 90 | Alley, square 16 | | 264 | 439 | | | | | | 8 | 60 | | |
| 139 | Alley, square 17 | | | | | | | | | 1 | | | 25.00 |
| 8 | Alley, square 37 | | | 198 | | | | | | 2 | 18 | | 147.00 |
| 11 | Alley, square 40 | | | 90 | | | | | | 3 | 6 | | 112.50 |
| 138 | Alley, square 67 | 28 | | | | | | | | 1 | 2 | | 67.25 |
| 29 | Alley, square 85 | | | 42 | | | | | | 1 | 6 | | 28.00 |
| 49 | Alley, square 85 | | | 81 | | | | | | 1 | 10 | | 56.00 |
| 124 | Alley, square 97 | | | 61 | | | | | | | 5 | | 43.40 |
| 115 | Alley, square 100 | | 444 | 522 | | | | | | 8 | 73 | | |
| 69 | Alley, square 104 | | 135 | | | | | | | 1 | 5 | | 99.40 |
| 110 | Alley, square 104 | | 96 | | | | | | | 2 | 16 | | 97.92 |
| 68 | Alley, square 117 | | | 60 | | | | | | 1 | 7 | | 42.00 |

SEWERS.

sewers.

| Cost of labor. | Cost of material. | | | Total cost of work. | Amount returned. | For whom done. | Overseer. | Date of completion. |
|----------------|--------------------|-----------------|----------|---------------------|------------------|----------------------------------|-------------|---------------------|
| | Permit fund, 1888. | Property owner. | On hand. | | | | | |
| \$48.00 | \$19.78 | | \$11.73 | \$79.51 | | F. Wharton | Thomas .. | Aug. 29, 1887 |
| 10.63 | | \$9.37 | | 20.00 | | T. A. Lambert .. | Bolden .. | Nov. 11, 1887 |
| 1,492.70 | 679.65 | | 508.25 | 2,680.60 | \$3.55 | T. W. Huidekoper .. | Wilson .. | Nov. 4, 1887 |
| 60.50 | 18.16 | | | 78.70 | 24.80 | John Tracy | Rock | |
| 93.80 | 29.36 | | 29.74 | 152.90 | | A. M. Proctor | Thomas .. | Oct. 27, 1887 |
| 39.14 | | 21.98 | 11.68 | 72.80 | 10.28 | E. L. Dent | Wilson .. | |
| 70.00 | 25.58 | | 25.94 | 121.52 | | H. Roache | Rock | |
| 390.00 | 100.27 | | 138.24 | 628.51 | | R. G. D. Havens .. | do | Dec. 31, 1887 |
| 70.00 | 27.23 | | 17.28 | 114.51 | | A. T. Coumbe | Thomas .. | Nov. 21, 1887 |
| 17.76 | | 25.34 | | 43.10 | | M. R. R. Co | do | June 30, 1888 |
| 6.95 | | 4.25 | | 11.20 | 5.30 | Shedd & Bro. | do | May 10, 1888 |
| 117.46 | 48.68 | 38.51 | 41.40 | 240.08 | | F. T. Schneider .. | do | Nov. 30, 1887 |
| 193.41 | 90.61 | | 45.80 | 329.82 | 6.09 | T. M. Woodruff .. | Rock | July 13, 1887 |
| 96.03 | 31.06 | | 214.18 | 341.27 | 84.16 | Geo. Truesdell .. | Frey | Oct. 31, 1887 |
| 127.47 | 65.68 | | 48.04 | 241.19 | .53 | G. G. Martin | Foley .. | Oct. 12, 1887 |
| 70.00 | 28.30 | | 26.52 | 124.82 | | G. McCullough .. | Curtis .. | Sept. 2, 1887 |
| 148.35 | 41.32 | | 60.36 | 250.03 | | F. T. Browning .. | Wilson .. | June 20, 1888 |
| 36.00 | 3.09 | | 9.05 | 48.14 | | W. H. Zeh | Thomas .. | Nov. 19, 1887 |
| 122.03 | 49.07 | | 49.48 | 220.58 | 7.47 | C. V. Trott | do | Oct. 17, 1887 |
| 161.85 | 33.65 | | 42.04 | 237.54 | 18.15 | J. M. Green | do | Sept. 27, 1887 |
| 101.50 | 46.55 | | 37.85 | 185.90 | | J. R. Pollard | do | Sept. 28, 1887 |
| 12.60 | | | 3.36 | 15.96 | | W. C. Hodge | do | Sept. 22, 1887 |
| 25.00 | | | 18.69 | 43.69 | | J. J. Darlington .. | Bolden .. | Nov. 17, 1887 |
| 144.44 | | 89.56 | 39.84 | 273.84 | | T. J. Fisher & Co | Rock | |
| 116.00 | 61.53 | | 56.58 | 234.11 | | J. W. Wagner | Wilson .. | Aug. 17, 1887 |
| 150.17 | 105.17 | | 18.20 | 273.54 | 14.33 | Hon. P. Sawyer .. | Condon .. | May 9, 1888 |
| 112.00 | 33.65 | | 38.34 | 183.99 | | H. B. Glasscock .. | Thomas .. | Sept. 30, 1887 |
| 214.59 | | 99.47 | 60.48 | 374.54 | 27.64 | J. D. McPherson .. | Wilson .. | |
| 82.56 | 34.78 | | 23.18 | 140.52 | 1.44 | Addison & La-combe. | Thomas .. | Aug. 22, 1887 |
| 126.00 | 30.23 | | 44.50 | 200.73 | | Darby & Collins .. | do | Oct. 31, 1887 |
| 174.64 | 52.24 | | 38.66 | 215.54 | | Compulsory | Foley .. | Oct. 17, 1887 |
| 40.06 | 24.66 | | 8.16 | 72.88 | 4.98 | F. Scroth | Rock | July 28, 1887 |
| 153.83 | 30.51 | 31.01 | 37.60 | 252.95 | 16.16 | G. B. Whiting | Thomas .. | Dec. 16, 1887 |
| 19.43 | 2.86 | | 5.69 | 27.98 | .57 | W. Wurdeman | Foley .. | Sept. 16, 1887 |
| 234.34 | | 95.11 | 58.08 | 387.53 | .04 | F. Thomas | Thomas .. | Dec. 19, 1887 |
| 245.00 | 84.05 | | 89.80 | 418.85 | | J. F. Waggaman .. | Rock | Aug. 8, 1887 |
| 106.40 | 31.30 | | 38.12 | 175.82 | | R. S. Hill | Cosgrove .. | Nov. 8, 1887 |
| 223.89 | 72.29 | | 144.70 | 440.88 | 63.61 | B. T. Juenemann .. | Rock | July 27, 1887 |
| 39.83 | 41.50 | | | 81.33 | 2.67 | J. H. Carll | do | July 28, 1887 |
| 111.55 | | 41.51 | | 153.06 | 32.94 | F. Baldwin | do | May 25, 1888 |
| 324.98 | 110.51 | | 107.08 | 542.57 | 1.27 | T. E. Waggaman .. | do | Sept. 2, 1887 |
| 109.26 | 48.70 | | 39.16 | 197.12 | 14.74 | Washington and Georgetown R. Co. | Wilson .. | Apr. 14, 1888 |
| 181.53 | 112.30 | | 5.20 | 299.03 | 26.67 | Jas. H. Grant | Rock | Apr. 14, 1888 |
| 133.00 | 37.11 | | 64.51 | 234.62 | | A. Glass | Thomas .. | Aug. 12, 1887 |
| 169.51 | 67.23 | | 105.92 | 342.66 | | Compulsory | Wilson .. | Aug. 26, 1887 |
| 154.00 | 54.02 | | 52.10 | 260.12 | | W. B. Lord | Rock | Aug. 12, 1887 |
| 235.70 | 142.29 | | 25.20 | 403.19 | 32.40 | Oliver Cox | do | Apr. 25, 1888 |
| 82.60 | 28.64 | | 33.33 | 144.57 | | W. C. Avery | Wilson .. | Aug. 17, 1887 |
| 59.30 | 26.11 | | 23.12 | 108.53 | | E. J. Hannan | Rock | June 24, 1888 |
| 325.05 | 107.57 | | 152.35 | 584.97 | 18.95 | R. M. Groundie .. | do | Aug. 20, 1887 |
| 5.86 | | 4.46 | | 10.32 | 3.18 | M. A. Chapman .. | do | Sept. 17, 1887 |
| 170.26 | 43.44 | | 64.40 | 278.10 | 4.74 | T. F. Schneider .. | do | Sept. 17, 1887 |
| 82.94 | 27.91 | | 32.84 | 143.79 | 9.46 | Weller & Repetti .. | do | Nov. 4, 1887 |
| 22.90 | 17.25 | | 5.40 | 45.55 | 6.50 | G. W. Stickney .. | do | July 13, 1887 |
| 409.74 | 178.34 | | 165.24 | 753.32 | | Compulsory | do | Mar. 29, 1888 |
| 9.91 | | 15.09 | | 25.00 | | C. H. Weser | Bolden .. | June 22, 1887 |
| 147.00 | 73.90 | | 37.44 | 258.34 | | Danenhov'r & Son | Thomas .. | Aug. 17, 1887 |
| 97.75 | 49.01 | | 42.94 | 189.70 | 14.75 | Wescott & Wilcox .. | do | Aug. 26, 1887 |
| 33.24 | 20.05 | | | 53.29 | 13.96 | S. M. Bryan | do | June 22, 1888 |
| 28.00 | 19.53 | | 12.37 | 59.90 | | B. H. Warner & Co | do | Aug. 17, 1887 |
| 56.00 | 25.99 | | 24.06 | 106.05 | | do | do | Oct. 8, 1887 |
| 43.40 | 6.95 | | 16.98 | 67.33 | | W. H. McDonald .. | Rock | June 29, 1888 |
| 472.01 | 307.93 | | 87.40 | 867.34 | | Compulsory | do | May 11, 1888 |
| 88.30 | 32.37 | | 26.20 | 146.87 | 11.10 | Danenhov'r & Son | Thomas .. | Oct. 11, 1887 |
| 59.12 | | 38.80 | 14.40 | 112.32 | | T. E. Waggaman .. | do | Jan. 9, 1888 |
| 40.65 | 18.51 | | 12.96 | 72.12 | 1.35 | Jas. Storum | do | Oct. 31, 1887 |

| Number. | Location. | Pipe sewers. | | | | | | | Concrete and brick sewers. | Man-holes built. | Branches used. | Basins built. | Estimated cost. |
|-------------|--------------------------|--------------|---------|----------|----------|----------|----------|----------|----------------------------|------------------|----------------|---------------|-----------------|
| | | 6-inch. | 8-inch. | 12-inch. | 15-inch. | 18-inch. | 21-inch. | 24-inch. | | | | | |
| 107 | Alley, square 121 | | 201 | | | | | | | 2 | 5 | | \$158.00 |
| 79 | Alley, square 126 | | | 387 | | | | | | 2 | 14 | 1 | |
| 104 | Alley, square 127 | | | 110 | | | | | | 2 | 7 | | 122.40 |
| 78 | Alley, square 132 | | | 51 | | | | | | 1 | 2 | | 40.00 |
| 94 | Alley, square 157 | | | 123 | | | | | | 2 | 4 | | 91.00 |
| 93 | Alley, square 158 | | | 300 | | | | | | 2 | 20 | | 225.75 |
| 60 | Alley, square 181 | | | 261 | | | | | | 2 | 13 | | 185.50 |
| 24 | Alley, square 181 | | | 303 | | | | | | 3 | 27 | | |
| 109 | Alley, square 204 | | | 432 | | | | | | 4 | 31 | | 455.94 |
| 37 | Alley, square 204 | | | 267 | | | | | | 3 | 18 | | 147.00 |
| 22 | Alley, square 206 | | | 195 | | | | | | 1 | 15 | | |
| 116 | Alley, square 241 | | 45 | | | | | | | | 3 | | 60.00 |
| 84 | Alley, square 247 | | | 57 | | | | | | 1 | 4 | | 39.90 |
| 75 | Alley, square 313 | | 129 | | | | | | | 1 | 5 | 1 | |
| 139 | Alley, square 322 | | | | | | | | | 1 | | | 25.00 |
| 44 | Alley, square 342 | | | 61 | | | | | | 1 | 2 | | 52.00 |
| 105 | Alley, square 359 | | 48 | | | | | | | | 3 | | 50.40 |
| 72 | Alley, square 359 | | 48 | 129 | | | | | | 5 | 10 | | 140.70 |
| 121 | Alley, square 361 | | 12 | | | | | | | | 2 | | 18.00 |
| 142 | Alley, square 361 | | 15 | | | | | | | | | | 12.50 |
| 126 | Alley, square 364 | | | 161 | | | | | | | 7 | | 119.00 |
| 140 | Alley, square 364 | | | 16 | | | | | | | 2 | | 16.00 |
| 19 | Alley, square 368 | | | 277 | | | | | | 2 | 32 | | |
| 62 | Alley, square 369 | | | 132 | | | | | | 2 | 8 | | 91.00 |
| 51 | Alley, square 411 | | | 78 | | | | | | 1 | 10 | | 144.00 |
| 70 | Alley, square 448 | | | 27 | | | | | | | 2 | | 27.00 |
| 80 | Alley, square 468 | | | 109 | | | | | | 1 | 7 | | 70.00 |
| 131 | Alley, square 470 | | | 120 | | | | | | 1 | 9 | | 84.00 |
| 55 | Alley, square 501 | | | 711 | | | | | | 7 | 64 | 2 | |
| 53 | Alley, square 502 | | 64 | | | | | | | 1 | 8 | | 90.00 |
| 128 | Alley, square 502 | | 84 | | | | | | | | 14 | | 100.00 |
| 114 | Alley, square 503 | | | 186 | | | | | | 1 | 18 | | 126.00 |
| 26 | Alley, square 507 | | | 165 | | | | | | 2 | 36 | | |
| 20 | Alley, square 510 | | | 276 | | | | | | 2 | 38 | | |
| 89 | Alley, square 511 | | 252 | | | | | | | 2 | 18 | | 168.50 |
| 38 | Alley, square 512 | | 70 | | | | | | | 1 | 5 | | 87.50 |
| 133 | Alley, square 521 | | | 135 | | | | | | 2 | 12 | | 100.25 |
| 12 | Alley, square 534 | | | 90 | | | | | | 2 | 5 | | 66.50 |
| 136 | Alley, square 534 | | 15 | | | | | | | | 2 | | 7.50 |
| 4 | Alley, square 540 | | 145 | | | | | | | 1 | 19 | | 87.75 |
| 58 | Alley, square 540 | | | 30 | | | | | | | 2 | | 30.00 |
| 39 | Alley, square 544 | | | 336 | | | | | | 2 | 27 | | |
| 30 | Alley, square 557 | | | 159 | | | | | | 3 | 20 | | |
| 119 | Alley, square 557 | | 12 | | | | | | | | 1 | | 7.20 |
| 17 | Alley, square 583 | | 264 | 144 | | | | | | 7 | 32 | | |
| 33 | Alley, square 586 | | 187 | | | | | | | 2 | 20 | | |
| 66 | Alley, square 586 | | | 315 | | | | | | 2 | 23 | | |
| 125 | Alley, square 621 | | 33 | | | | | | | | 3 | | 66.85 |
| 56 | Alley, square 633 | | | 369 | | | | | | 3 | 27 | | 280.00 |
| 95 | Alley, square 638 | | 36 | | | | | | | 1 | 4 | | 27.00 |
| 97 | Alley, square 674 | | | 48 | | | | | | | 4 | | 33.60 |
| 40 | Alley, square 676 | | | 282 | | | | | | 2 | 17 | | |
| 86 | Alley, square 677 | | | 324 | | | | | | 2 | 16 | | |
| 106 | Alley, square 677 | | 42 | | | | | | | | | | 40.80 |
| 96 | Alley, square 686 | | 77 | | | | | | | | 4 | | 120.00 |
| 108 | Alley, square 753 | | | 138 | | | | | | 2 | 10 | | |
| 99 | Alley, square 753 | | | 132 | | | | | | | 9 | | 121.60 |
| 6 | Alley, square 762 | | | 379 | | | | | | 5 | 18 | | 245.00 |
| 15 | Alley, square 762 | | | 84 | | | | | | 2 | 6 | | 66.50 |
| 16 | Alley, square 361 | | | 15 | | | | | | 1 | 2 | | 12.00 |
| 73 | Alley, square 812 | | | 153 | | | | | | 2 | 10 | | 180.00 |
| 18 | Alley, square 869 | | 138 | 172 | | | | | | 4 | 30 | 2 | |
| 130 | Alley, square 873 | | 33 | | | | | | | 1 | 3 | | 31.40 |
| 81 | Alley, square 877 | | | 87 | | | | | | 1 | 9 | | 104.40 |
| 74 | Alley, square 877 | | | 1,051 | | | | | | 8 | 82 | | |
| 100 | Alley, square 915 | | | 237 | | | | | | 3 | 18 | | 229.50 |
| 127 | Alley, square 925 | | 6 | | | | | | | | 2 | | 5.00 |
| 21 | Alley, square 925 | | 110 | 132 | | | | | | 3 | 10 | | |
| 25 | 12th between M and N S E | | | | | | | 30 | 240 | | | | 1 478.92 |
| Total | | 28 | 3,308 | 18,493 | 480 | 230 | 175 | 30 | 667 | 230 | 1,481 | 8 | 15,059.72 |

SEWERS—Continued.

sewers—Continued.

| Cost of labor. | Cost of material. | | | Total cost of work. | Amount returned. | For whom done. | Overseer. | Date of completion. |
|----------------|--------------------|-----------------|----------|---------------------|------------------|------------------------------|-----------|---------------------|
| | Permit fund, 1888. | Property owner. | On hand. | | | | | |
| \$137.64 | | \$60.36 | \$21.60 | \$219.60 | | J. E. Talty | Thomas | Jan. 10, 1888 |
| 393.32 | \$77.34 | | 98.04 | 568.70 | | Compulsory | Foley | Nov. 24, 1887 |
| 69.72 | | 52.68 | 22.56 | 144.96 | | C. Carlisle | Thomas | Dec. 31, 1887 |
| 40.00 | 16.96 | | 13.10 | 70.06 | | S. G. Hunter | Cosgrove | Nov. 19, 1887 |
| 91.00 | 42.69 | | 31.40 | 165.09 | | Jas. H. Marr | do | Dec. 23, 1887 |
| 225.75 | 65.38 | | 80.00 | 371.13 | | J. T. Olmstead | do | Nov. 30, 1887 |
| 182.74 | 61.39 | | 67.60 | 311.73 | \$2.76 | G. E. Lemon | Thomas | Oct. 18, 1887 |
| 272.87 | 77.52 | | 80.22 | 430.61 | | Compulsory | do | Sept. 7, 1887 |
| 335.37 | | 121.57 | 97.46 | 553.40 | | R. Portner | Rock | |
| 147.00 | 75.81 | | 69.48 | 292.29 | | Jacob Jones | do | Sept. 16, 1887 |
| 119.41 | 25.95 | | 50.00 | 195.31 | | Compulsory | do | Aug. 31, 1887 |
| 28.06 | | 9.84 | | 37.90 | 22.10 | Sophia Wise | do | Apr. 16, 1888 |
| 39.90 | 20.05 | | 14.77 | 74.72 | | D. W. Prentiss | Cosgrove | Nov. 21, 1887 |
| 133.63 | 39.69 | | 22.80 | 196.12 | | Compulsory | Thomas | |
| 9.91 | | 15.09 | | 25.00 | | C. H. Weser | Bolden | June 22, — |
| 52.00 | 21.69 | | 15.78 | 89.47 | | E. J. Hannan | Cosgrove | Aug. 5, 1887 |
| 34.05 | | 12.74 | 5.70 | 52.49 | 3.61 | J. S. Boss | do | |
| 140.70 | 75.85 | | 44.96 | 261.51 | | do | do | |
| 10.75 | | 2.15 | | 12.90 | 5.10 | G. M. C. Meigs | Thomas | |
| 14.65 | | 1.70 | 1.50 | 17.85 | 6.15 | G. W. Reardon | do | |
| 100.91 | 17.76 | | 44.10 | 162.77 | 18.09 | J. A. Power | Rock | June 7, 1887 |
| 16.00 | 1.03 | | 5.00 | 22.03 | | R. G. Campbell | Thomas | June 25, 1887 |
| 213.31 | 61.57 | | 79.31 | 354.19 | | Compulsory | Wilson | Aug. 14, 1887 |
| 91.00 | 28.27 | | 37.64 | 156.91 | | Wm. King | Thomas | Oct. 27, 1887 |
| 86.14 | | 57.86 | | 144.00 | | Mrs. A. E. Wright | Curtis | Sept. 30, 1887 |
| 20.08 | .80 | | 7.15 | 28.03 | 6.92 | H. Prinehorn | Thomas | Oct. 31, 1887 |
| 70.00 | 11.24 | | 26.74 | 107.98 | | Harbin & Arnold | do | Nov. 15, 1887 |
| 80.60 | 28.64 | | 33.94 | 143.18 | 3.40 | R. Waldon | Rock | June 21, 1888 |
| 514.35 | 207.79 | | 200.04 | 922.18 | | Compulsory | do | Mar. 8, 1888 |
| 41.71 | | 36.58 | | 78.29 | 11.71 | Tyler & Parker | Cosgrove | Nov. 17, 1887 |
| 60.25 | | 37.89 | | 98.14 | 1.86 | do | Thomas | June 12, 1888 |
| 114.32 | 34.57 | | 53.96 | 202.85 | 11.68 | J. Commisky | Rock | June 18, 1888 |
| 148.93 | 49.44 | | 56.07 | 254.44 | | Compulsory | Curtis | Sept. 9, 1887 |
| 262.46 | 61.44 | | 77.48 | 401.38 | | do | Foley | Oct. 3, 1887 |
| 103.57 | | 64.93 | 18.00 | 186.50 | | J. B. Hollidge | Cosgrove | Nov. 26, 1887 |
| 44.88 | | 35.32 | | 80.20 | 7.30 | H. A. Streitberger | Foley | Oct. 5, 1887 |
| 93.21 | 45.01 | | 38.42 | 176.64 | 7.04 | Jas. Halpin | Wilson | June 24, 1888 |
| 52.91 | 31.86 | | 23.70 | 108.47 | 13.59 | O. E. Duffy | Wilson | Aug. 25, 1887 |
| 7.50 | | | 4.66 | 12.16 | | James Ryan | Thomas | June 26, 1888 |
| 57.33 | 23.48 | | 26.36 | 107.17 | 30.42 | R. O'Neil | Rock | July 26, 1887 |
| 25.75 | 3.89 | | 7.86 | 37.50 | 4.25 | do | Curtis | Sept. 15, 1887 |
| 178.56 | 59.36 | | 91.92 | 329.84 | | Compulsory | Rock | May 2, 1888 |
| 259.30 | 71.96 | | 62.40 | 393.66 | | do | Curtis | Sept. 21, 1887 |
| 6.69 | | | 2.53 | 9.22 | .51 | C. D. Cole | Thomas | May 7, 1888 |
| 344.18 | 179.47 | | 74.85 | 598.50 | | Compulsory | Rock | July 25, 1887 |
| 68.24 | 35.75 | | 31.40 | 135.39 | | do | Wilson | Aug. 23, 1887 |
| 255.14 | 67.31 | | 85.94 | 408.39 | | do | Curtis | Oct. 27, 1887 |
| 23.95 | | 22.62 | | 46.57 | 20.28 | William Hughes | Wilson | |
| 280.00 | 89.73 | | 100.00 | 469.73 | | R. Stead | Thomas | Nov. 17, 1887 |
| 25.73 | 8.41 | | 6.20 | 40.34 | 1.27 | E. Temple | Rock | |
| 25.46 | 1.60 | | 13.33 | 40.39 | | C. W. King | do | Dec. 3, 1887 |
| 215.01 | 57.77 | | 74.28 | 347.06 | | Compulsory | Curtis | |
| 205.09 | 61.29 | | 84.52 | 350.90 | | do | Rock | Dec. 12, 1887 |
| 25.49 | | 9.41 | 4.80 | 39.70 | 5.90 | R. A. Dore | do | do |
| 85.16 | | 32.18 | 9.36 | 126.70 | 2.66 | H. Taylor | Foley | Nov. 30, 1887 |
| 84.20 | 26.47 | | 35.24 | 145.91 | | Compulsory | Rock | |
| 71.18 | 16.62 | 24.23 | 32.48 | 144.51 | 26.19 | Danenhof & Son | do | Jan'y. 5, 1888 |
| 245.00 | 122.81 | | 90.00 | 457.81 | | T. J. Mayer | Curtis | Oct. 31, 1887 |
| 66.50 | 47.84 | | 23.32 | 137.66 | | C. Ruppert | Rock | Nov. 2, 1887 |
| 12.00 | 13.80 | | 1.86 | 27.66 | | Gen. M. C. Meigs | Curtis | Aug. 27, 1887 |
| 100.43 | | 79.57 | 29.28 | 209.28 | | Oliver Cox | Foley | Oct. 31, 1887 |
| 359.54 | 129.64 | | 103.32 | 592.50 | | R. W. Tyler | Rock | Aug. 22, 1887 |
| 27.81 | 13.78 | | 5.95 | 47.54 | 3.59 | Swormstedt & Bradley | Condon | June 22, 1888 |
| 44.25 | | 49.90 | 18.24 | 112.39 | 10.25 | C. Gessford | Rock | Nov. 15, 1887 |
| 775.18 | 272.61 | | 321.40 | 1,369.19 | | Compulsory | do | Dec. 1, 1887 |
| 134.46 | | 95.04 | 46.56 | 276.06 | | J. A. Tarkington | do | Jan. 20, 1888 |
| 3.35 | | | 2.04 | 5.39 | 1.65 | Thomas Kirby | do | May 29, 1888 |
| 154.37 | 56.66 | | 41.34 | 252.37 | | Compulsory | do | Sept. 24, 1887 |
| 1 427.97 | 1,002.46 | | 392.30 | 2,822.73 | 50.95 | Washington Gas-Light Company | Wilson | Aug. 14, 1887 |
| 19,638.82 | 7,141.56 | 1,271.33 | 6,375.86 | 34,427.57 | 656.84 | | | |

Compulsory permit sewers contained in permit-sewer table.

| No. | Location. | Pipe sewer. | Cost to District. | Cost to owner of property. |
|------------|------------------------|-----------------|-------------------|----------------------------|
| | | <i>Ltn. ft.</i> | | |
| 23 | Reservation 10..... | 150 | \$90.90 | \$124.64 |
| 42 | Reservation C..... | 267 | 173.15 | 169.51 |
| 90 | Alley, square 16..... | 703 | 343.58 | 409.74 |
| 115 | Alley, square 100..... | 966 | 395.33 | 472.01 |
| 24 | Alley, square 181..... | 303 | 157.74 | 272.87 |
| 22 | Alley, square 206..... | 195 | 75.90 | 119.41 |
| 75 | Alley, square 313..... | 129 | 62.49 | 133.63 |
| 19 | Alley, square 368..... | 277 | 140.88 | 213.31 |
| 55 | Alley, square 501..... | 711 | 407.83 | 514.35 |
| 26 | Alley, square 507..... | 165 | 105.51 | 148.93 |
| 20 | Alley, square 510..... | 276 | 138.92 | 262.46 |
| 39 | Alley, square 544..... | 336 | 151.28 | 178.56 |
| 30 | Alley, square 557..... | 219 | 134.36 | 259.50 |
| 17 | Alley, square 583..... | 472 | 254.32 | 344.18 |
| 33 | Alley, square 586..... | 187 | 67.15 | 68.24 |
| 66 | Alley, square 586..... | 315 | 153.25 | 255.14 |
| 40 | Alley, square 676..... | 282 | 132.05 | 215.01 |
| 86 | Alley, square 677..... | 324 | 145.81 | 205.09 |
| 108 | Alley, square 753..... | 138 | 61.71 | 84.20 |
| 74 | Alley, square 877..... | 1,051 | 594.01 | 775.18 |
| 79 | Alley, square 126..... | 387 | 175.38 | 303.32 |
| 21 | Alley, square 925..... | 132 | 98.00 | 154.37 |
| Total..... | | 7,985 | 4,059.55 | 5,773.45 |

D. 16.—LIST OF INSPECTORS ON SEWER WORK.

List of inspectors.

| Number. | Name. | Compensation. | | Amount paid. | Under contracts. | Paid from appropriation. |
|------------|----------------------|---------------|------------|--------------|-----------------------|--|
| | | Per diem. | Per month. | | | |
| 1 | J. Boyle Stubbs..... | \$4.00 | | \$832.00 | 826..... | Main and pipe sewers, 1888. |
| 2 | H. Cosgrove..... | 3.00 | | 156.00 | 826, 833..... | Do. |
| 3 | J. L. Brenizer..... | 4.00 | | 504.00 | 826, 820..... | Do. |
| 4 | James Powell..... | 4.00 | | 56.00 | 826..... | Do. |
| 5 | R. H. Moore..... | 4.00 | | 16.00 | 826..... | Do. |
| 6 | J. C. Power..... | 4.00 | | 8.00 | 824..... | Do. |
| 7 | C. T. Curtis..... | 4.00 | | 260.00 | 824, 820, 826..... | Do. |
| 8 | C. B. Ball..... | | \$125.00 | 1,499.99 | 826, 824, 820..... | Do. |
| 9 | M. C. Hargrove..... | *2.00 | | 148.00 | 826, 820..... | Do. |
| 10 | Charles Little..... | *2.00 | | 210.00 | 826, 820..... | Do. |
| 11 | C. D. Webb..... | *2.00 | | 8.00 | 826, 820..... | Do. |
| 12 | J. A. Neville..... | *2.00 | | 54.00 | 826, 820..... | Do. |
| 13 | W. S. Hancock..... | *2.00 | | 60.00 | 826, 820..... | Do. |
| 14 | W. H. Voss..... | *2.00 | | 338.00 | 788..... | Do. |
| 15 | C. Bailey..... | *2.00 | | 338.00 | 788..... | Do. |
| 16 | D. M. Thomas..... | *4.00 | | 40.00 | 898..... | Do. |
| 17 | Geo. W. Wallace..... | *2.00 | | 128.00 | 824, 820..... | Do. |
| 18 | Chas. Fernald..... | *2.00 | | 128.00 | 824, 820..... | Do. |
| 19 | J. Boyle Stubbs..... | 4.00 | | 96.00 | 826, 832, 897..... | Replacing obstructed sewers, 1888. |
| 20 | James Powell..... | 4.00 | | 180.00 | 833..... | Construction of suburban sewers, 1888. |
| 21 | J. C. Power..... | 4.00 | | 204.00 | 832, 833, 838..... | Do. |
| 22 | J. Boyle Stubbs..... | 4.00 | | 176.00 | 826, 838, 893..... | Do. |
| 23 | C. T. Curtis..... | 4.00 | | 364.00 | 832, 898, 897..... | Do. |
| 24 | John J. Condon..... | 4.00 | | 12.00 | 898..... | Do. |
| 25 | D. E. McCombs..... | | 200.00 | 3,000.00 | General services..... | Do. |
| Total..... | | | | \$8,815.99 | | |

*Rates under \$4 per diem are compensation of subinspectors, with the exception of H. Cosgrove, and W. H. Voss and C. Bailey, while rated at \$3, when they were classed as inspectors.

† Superintendent in charge of construction, repair, and maintenance of sewers.

D 17.—Character and extent of street pavements, July 1, 1878.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Width. | Carriage-way. | | | | | | Remarks. |
|---------------------|----------------------|------------------|----------|----------------------|----------|----------|-----------------------|----------|----------|---|
| | | | | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. |  | Unimproved. |
| North Capitol. | B street north. | C street north. | Feet. 50 | Sq. yds. *2,790 | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Gravel from I to Boundary. |
| Do. | C street north. | Boundary. | 50 | *11,418 | | | | | 18,945 | 4,542 |
| South Capitol. | B street south. | M street south. | 50 | | | | | | 26,284 | |
| Do. | M street south. | N street south. | 50 | | | | | | | |
| Do. | N street south. | River. | 50 | | | | 3,243 | | 13,259 | |
| First street east. | B street north. | B street south. | 50 | 8,657 | | | 1,511 | | | From M st. south to N st. 1,511 yards cobble bet. R. R. tracks. |
| Do. | do. | C street north. | 35 | *1,986 | | | | | | O. c. walk, curb, and gutter, G to K street. |
| Do. | C street north. | K street north. | 35 | | | | | | 9,245 | 2,217 |
| Do. | K street north. | Boundary. | 35 | | | | | | | 9,431 |
| Do. | B street south. | C street south. | 38 | | | | | | | |
| Do. | C street south. | Canal. | 35 | | *2,151 | | | | 5,639 | From B st. south to C st. O. c. walk, curb, and gutter, M to N. |
| Do. | Canal. | River. | 35 | | | | | | 3,500 | 6,222 |
| First street west. | Pennsylvania avenue. | Indiana avenue. | 56 } | | | | | | | Cobble bet. R. R. tracks. |
| Do. | Indiana avenue. | F street north. | 40 } | | *8,332 | | 4,055 | | | Concrete from H to Defrees. |
| Do. | G street north. | H street north. | 32 | | *1,427 | | | | | |
| Do. | H street north. | I street north. | 32 | | *535 | | | | | |
| Do. | I street north. | K street north. | 32 | *700 | | | | | 1,124 | |
| Do. | K street north. | Boundary street. | 32 | | | | | | | 11,022 |
| Do. | Pennsylvania avenue. | Maryland avenue. | 53 | *4,861 | | | 1,133 | | | |
| Do. | Maryland avenue. | M street south. | 35 | | 17,920 | | | | | |
| Do. | M street south. | N street south. | 34 | | | | 2,314 | | | |
| Do. | N street south. | River. | 35 | | | | | | 13,160 | |
| Second street east. | Pennsylvania avenue. | Maryland avenue. | 32 | *6,597 | | | | | | |
| Do. | Maryland avenue. | H street north. | 32 | | | | | | 14,222 | |
| Do. | H street north. | Boundary street. | 32 | | | | | | | 3,416 |
| Do. | Pennsylvania avenue. | D street south. | { 32 } | *4,906 | | | | | | |
| Do. | D street south. | Canal. | { 35 } | | | | | | 1,244 | 5,464 |
| Do. | Canal. | River. | 35 | | | | | | | 4,620 |

D 17.—Character and extent of street pavements, July 1, 1888—Continued.
WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Carriage-way. | | | | | | | Remarks. |
|-----------------------------|---------------------|---------------------|---------------|----------------------|----------|----------|-----------------------|----------|----------|--|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. |  | Unimproved. |
| | | | Feet. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. |
| Second street west | Pennsylvania avenue | New Jersey avenue | 40 | *10,423 | *3,693 | | | | | 32 feet wide bet. H and I. |
| Do | B street south | Maryland avenue | 32 | | | | | *1,150 | | O. c. walk, curb, and gutter, from B to D. |
| Do | do | D street south | 32 | | | | | | | 23,840 |
| Do | D street south | River | 32 | | | | | 1,060 | | 3,200 |
| Third street east | East Capitol | E street north | 32 | 4,212 | | | | 2,400 | | |
| Do | E street north | Boundary | 32 | | | | | | | 1,152 |
| Do | East Capitol | Pennsylvania avenue | 32 | *3,521 | | | | | | 12,715 |
| Do | Pennsylvania avenue | C street south | 32 | *987 | | | | | | |
| Do | C street south | D street south | 32 | | *2,573 | | | | | |
| Do | D street south | Virginia avenue | 32 | | 5,030 | | | | | |
| Do | Virginia avenue | L street south | 32 | | | | | 800 | | 2,020 |
| Do | L street south | Georgia avenue | 32 | | | | | | | O. c. walk, curb, and gutter. |
| Do | Pennsylvania avenue | D street north | 32 | | *4,230 | | | | | Resurfaced from D to K street in 1883. |
| Do | D street north | New Jersey avenue | 40 | 19,480 | | | | | | O. c. walk, curb, and gutter, 1,900 feet. |
| Do | M street north | Boundary | 40 | | | | | | | 8,445 |
| Do | Pennsylvania avenue | B street south | 40 | | *6,065 | | | | | |
| Do | B street south | N street south | 40 | *8,193 | | | | | 12,391 | |
| Fourth street east | East Capitol | C street north | 35 | *6,438 | | | | | | |
| Do | C street north | Boundary | 35 | | | | | | | 17,174 |
| Do | East Capitol | C street south | 35 | *4,152 | | | 1,391 | | | From G to M, east side improved. |
| Do | C street south | N street south | 35 | | | | | | | |
| Fourth street west | D street north | New York avenue | 32 | 14,291 | | | | 16,760 | | Cobble between R. R. tracks. |
| Do | New York avenue | O street north | 32 | | | | | 3,968 | | Do. |
| Do | O street north | Boundary | 32 | | | | | 2,051 | | 8,320 |
| Do | D street north | Missouri avenue | 70 | 2,287 | | | | 7,015 | | O. c. walk, curb, and gutter. |
| Four-and-a-half street west | Missouri avenue | O street south | 55 | | *12,850 | | | 10,204 | | Cobble between R. R. tracks. |
| Do | East Capitol | C street north | 40 | 4,876 | | | | 17,700 | | |
| Do | C street north | K street north | 40 | | | | | | | |
| Do | K street north | Boundary | 40 | | | | | | | 10,845 |
| Do | East Capitol | C street south | 40 | | | | | | | 6,524 |
| Do | C street south | I street south | 32 | *4,916 | | | 518 | | | |
| Do | I street south | M street south | 32 | | | | | | | 6,807 |
| | | | | | | | | | | 3,404 |

[illegible]

D 17.—Character and extent of street pavements, July 1, 1888—Continued.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Carriage-way. | | | | | | Remarks. | |
|--------------------------------|-----------------------|----------------------|---------------|----------------------|-------------------|-----------------|-----------------------|-----------------|-----------------|--------------------------|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | | Gravel. | Unimproved. |
| Ninth street west | Pennsylvania avenue | B street north | Feet.
51 | Sq. yds.
2,260 | Sq. yds.
2,260 | Sq. yds.
945 | Sq. yds.
945 | Sq. yds.
945 | Sq. yds.
945 | Cobble bet. R. R. tracks |
| Do | do | P street north | 51 | 22,070 | | | 10,293 | | | Do. |
| Ninth street west (west side). | P street north | Boundary | 51 | *6,147 | | | 4,800 | | | Do. |
| Ninth street west (east side) | do | do | 51 | *3,130 | | | | | | |
| Ninth street west | B street south | Water street | 32 | | *7,061 | | | | | |
| Tenth street east | East Capitol | Boundary | 32 | | | | | | 13,830 | 2,773 |
| Do | do | Pennsylvania avenue | 32 | | | | | | | |
| Do | Pennsylvania avenue | M street south | 32 | | | | | | | 15,644 |
| Tenth street west | do | B street north | 51 | | 3,103 | | | | | |
| Do | D street north | E street north | 32 | *1,544 | | | | | | |
| Do | E street north | F street north | 32 | | *1,372 | | | | | |
| Do | F street north | G street north | 32 | *956 | | | | | | |
| Do | G street north | M street north | 32 | 8,296 | | | | | | |
| Do | M street north | R street north | 32 | *7,876 | | | | | | |
| Do | R street north | Boundary | 32 | *1,992 | | | | | | |
| Do | D street south | Water street | 32 | | | | 5,000 | | | 8,444 |
| Do | B street south. | Maryland avenue | 32 | *2,411 | | | | | | |
| Eleventh street east | East Capitol | Boundary | 32 | | | | | | | |
| Do | Massachusetts avenue. | Pennsylvania avenue. | 50 | | | | | 13,083 | | 15,758 |
| Do | Pennsylvania avenue. | River | 56 | | *4,697 | | | 15,762 | | |
| Eleventh street west | do | B street north | 55 | | | | 879 | | | |
| Do | do | E street north | 55 | *2,500 | | | 3,145 | | | |
| Do | Estreet north | F street north | 55 | | *1,734 | | | | | |
| Do | F street north | G street north | 55 | | *1,214 | | 718 | | | Do. |
| Do | G street north | I street north | 55 | 4,241 | | | 510 | | | Do. |
| Do | I street north. | K street north | 35 | 875 | | | 1,448 | | | Do. |
| Do | K street north | O street north | 35 | | | | 566 | | | Do. |
| Do | O street north | R street north | 35 | | *4,326 | | 3,666 | | | Do. |
| Do | R street north | Boundary | 35 | | | | 4,375 | | | |
| Do | R street north | Boundary | 35 | | | | | | | |
| Do | B street south | Water | 40 | | 10,511 | | 4,355 | 6,908 | | |
| Twelfth street east | Lincoln Square | Boundary | 32 | | | | | | | |
| Do | do | River | 32 | | | | | | | |
| | | | | | | | | | | 15,076 |
| | | | | | | | | | | 17,956 |

| Twelfth street west. | Pennsylvania avenue. | Ohio avenue. | 40 | *1, 292 | 3, 500 | Trap rock. |
|----------------------|----------------------|----------------------|----|----------|---------|------------|
| | | | | | | |
| Do. | Do. | E street north. | 38 | Do. | Do. | Do. |
| Do. | E street north. | F street north. | 38 | *1, 627 | Do. | Do. |
| Do. | F street north. | N street north. | 32 | 13, 039 | Do. | Do. |
| Do. | N street north. | Rhode Island avenue. | 32 | *3, 379 | Do. | Do. |
| Do. | Rhode Island avenue. | Boundary. | 32 | *2, 304 | 17, 306 | Do. |
| Do. | B street north. | Water street. | 40 | Do. | Do. | Do. |
| Do. | East Capitol. | Boundary. | 32 | Do. | Do. | Do. |
| Do. | Do. | River. | 32 | *685 | Do. | Do. |
| Do. | Pennsylvania avenue. | E street north. | 40 | *1, 741 | Do. | Do. |
| Do. | E street north. | F street north. | 40 | 7, 772 | Do. | Do. |
| Do. | F street north. | K street north. | 40 | 4, 807 | Do. | Do. |
| Do. | B street north. | Pennsylvania avenue. | 40 | Do. | Do. | Do. |
| Do. | K street north. | Circle. | 32 | 8, 090 | Do. | Do. |
| Do. | Circle. | Boundary. | 32 | *6, 398 | Do. | Do. |
| Do. | B street south. | Maryland avenue. | 40 | 5, 700 | Do. | Do. |
| Do. | Maryland avenue. | Water street. | 40 | Do. | Do. | Do. |
| Do. | Pennsylvania avenue. | B street north. | 35 | Do. | Do. | Do. |
| Do. | B street south. | Maryland avenue. | 32 | Do. | Do. | Do. |
| Do. | East Capitol. | Boundary. | 35 | Do. | Do. | Do. |
| Do. | Do. | River. | 32 | Do. | Do. | Do. |
| Do. | B street north. | B street south. | 40 | 7, 841 | Do. | Do. |
| Do. | Do. | F street north. | 70 | *2, 618 | Do. | Do. |
| Do. | F street north. | Thomas Circle. | 70 | *16, 655 | Do. | Do. |
| Do. | Thomas Circle. | Boundary. | 70 | *32, 782 | Do. | Do. |
| Do. | B street south. | Water street. | 40 | Do. | Do. | Do. |
| Do. | East Capitol. | Boundary. | 32 | Do. | Do. | Do. |
| Do. | Do. | River. | 32 | Do. | Do. | Do. |
| Do. | Pennsylvania avenue. | B street north. | 43 | *7, 012 | Do. | Do. |
| Do. | Do. | New York avenue. | 70 | 4, 478 | Do. | Do. |
| Do. | New York avenue. | H street north. | 50 | 7, 005 | Do. | Do. |
| Do. | H street north. | K street north. | 40 | Do. | Do. | Do. |
| Do. | K street north. | Rhode Island avenue. | 32 | *6, 920 | Do. | Do. |
| Do. | Rhode Island avenue. | S street north. | 32 | 7, 516 | Do. | Do. |
| Do. | S street north. | Boundary. | 32 | *4, 059 | Do. | Do. |
| Do. | Pennsylvania avenue. | H street north. | 40 | 1, 997 | Do. | Do. |
| Do. | East Capitol. | C street north. | 32 | Do. | Do. | Do. |
| Do. | Do. | Kentucky avenue. | 32 | Do. | Do. | Do. |
| Do. | H street north. | Boundary street. | 50 | *36, 659 | Do. | Do. |
| Do. | Pennsylvania avenue. | H street north. | 40 | 2, 196 | Do. | Do. |
| Do. | East Capitol. | C street north. | 32 | Do. | Do. | Do. |
| Do. | Do. | River. | 32 | Do. | Do. | Do. |
| Do. | B street north. | K street north. | 50 | 16, 729 | Do. | Do. |
| Do. | I street north. | P street north. | 32 | 12, 698 | Do. | Do. |
| Do. | P street north. | Q street north. | 32 | *1, 763 | Do. | Do. |

1,700 sq. yards paved since 1878.
5,942 sq. yards paved since 1878.
Asphalt to T street.

275 sq. yds. cobble bet. R. R. tracks.
Cobble bet. R. R. tracks.
Do.

Do.

Do.

D 17.—Character and extent of street pavements, July 1, 1883—Continued.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Width. | Carriage-way. | | | | | Remarks. |
|---------------------------|---------------------|----------------------|------------------|----------------------|----------|----------|-----------------------|----------|--|
| | | | | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | |
| | | | | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Unimproved. |
| Seventeenth street west. | Q street north | R street north | 32 | | | | | | O. c. walk, curb, and gutter. |
| Do | R street north | Boundary | 32 | | | | | | O. c. walk, curb, and gutter, from T to Boundary. |
| Eighteenth street east. | East Capitol | C street north | 32 | | | | | | |
| Do | do | Cemetery | 32 | | | | | | |
| Eighteenth street west | B street north | E street north | 32 | | | | | | |
| Do | E street north | New York avenue | 40 | 1,095 | | | | | |
| Do | New York avenue | Pennsylvania avenue | 38 | *4,895 | | | | | |
| Do | Pennsylvania avenue | K street north | 38 | *4,741 | | | | | |
| Do | K street north | L street north | 32 | *1,431 | | | | | |
| Do | L street north | P street north | 32 | *7,584 | | | | | |
| Do. | P street north | Boundary | 32 | *1,765 | | | | | |
| Nineteenth street east. | East Capitol | C street north | 32 | | | | | | |
| Do | do | Cemetery | 32 | | | | | | |
| Nineteenth street west | B street north | New York avenue | 32 | | | | 1,028 | | |
| Do | E street north | Pennsylvania avenue | 40 | 6,421 | | | | | Cobble west side of Rawlins Square. |
| Do | Pennsylvania avenue | Du Pont Circle | { 40 }
{ 32 } | *2,409 | *8,799 | | | | { Between Pa. av. and K st.
{ 40, bet. K and Circle 32. |
| Twentieth street east. | Du Pont Circle | T street north | 30 | 7,598 | | | | | |
| Do | East Capitol | C street north | 32 | | | | | | |
| Twentieth street west. | do | Albushouse | 32 | | | | | | |
| Do | B street north | E street north | 32 | | | | | | |
| Do | E street north | Pennsylvania avenue | 32 | 6,039 | | | | | |
| Do | Pennsylvania avenue | K street north | 32 | *981 | *1,349 | | | | |
| Do | K street north | R street north | 32 | 12,564 | | | | | |
| Do | R street north | Boundary | 32 | | | | 2,895 | | Granite from I to K st. |
| Twenty-first street east. | East Capitol street | C street north | 32 | | | | | | |
| Do | do | C street south | 32 | | | | | | |
| Twenty-first street west | B street north | E street north | 32 | | | | | | |
| Do | E street north | Pennsylvania avenue | 32 | 6,101 | | | | | |
| Do | Pennsylvania avenue | K street north | 32 | | 1,395 | | | | |
| Do | K street north | Massachusetts avenue | 32 | 10,892 | | | | | |
| Do | Q street north | Hillyer street | 32 | *956 | | | | | |

| | | | | | | | | | |
|----------------------------|-------------------------|-------------------------|-----|---------|--------|--|--------|-------|--------|
| Do | Hillyer street | Boundary | 32 | 49 8 | | | | | 1,612 |
| Twenty-second street east | East Capitol street | C street north | 32 | | | | | | 4,196 |
| Do | do | B street north | 32 | | | | | | 2,560 |
| Twenty-second street west | B street north | Virginia avenue | 32 | | | | | | 3,758 |
| Do | E street north | G street north | 32 | | | | 2,927 | | |
| Do | G street north | K street north | 32 | 4,641 | | | | | |
| Do | K street north | M street north | 32 | *2,781 | | | | | |
| Do | M street north | Boundary | 32 | | | | | 6,849 | |
| Twenty-third street east | East Capitol street | C street north | 32 | | | | | | 4,196 |
| Do | do | B street north | 32 | | | | | | 2,560 |
| Twenty third street west | Virginia avenue | E street north | 32 | | | | | 1,778 | |
| Do | E street north | Upper Water | 32 | | | | | | |
| Do | F street north | Pennsylvania avenue | 32 | | | | 5,067 | | |
| Do | Pennsylvania avenue | M street north | 32 | *2,387 | | | | | |
| Do | M street north | Rock Creek | 32 | | | | | | 3,699 |
| Twenty-fourth street east | East Capitol street | C street north | 32 | | | | | | 4,196 |
| Do | do | B street north | 32 | | | | | | 2,560 |
| Twenty-fourth street west | E street north | G street north | 32 | | | | | | 2,069 |
| Do | G street north | Pennsylvania avenue | 32 | | | | 5,192 | | |
| Do | Pennsylvania avenue | M street north | 32 | | | | *2,540 | | |
| Do | M street north | Rock Creek | 32 | | | | | 2,708 | |
| Twenty-fifth street west | Virginia avenue | River | 32 | | | | | | 1,200 |
| Do | Pennsylvania avenue | Virginia avenue | 32 | | | | 945 | | 5,735 |
| Do | do | Rock Creek | 32 | | | | | | 3,733 |
| Do | do | Rock Creek | 30 | | | | | 3,378 | |
| Twenty-sixth street west | G street north | D street north | 32 | | | | | | 5,440 |
| Do | do | K street north | 32 | | | | 5,042 | | |
| Do | K street north | Pennsylvania avenue | 32 | | *1,680 | | | | |
| Do | Pennsylvania avenue | M street north | 32 | 919 | | | | | |
| Twenty-seventh street west | E street north | L street north | 32 | | | | | | |
| East Capitol street | First street east | Eleventh street east | 50 | *17,915 | | | 6,044 | | |
| Do | Eleventh street east | Eastern Branch | 50 | | | | | | 8,651 |
| Do | First street east | Second street east | 35 | *2,788 | | | | | 25,822 |
| Do | Second street east | Fourth street east | 35 | *2,972 | | | | | |
| Do | Fourth street east | Eastern Branch | 35 | *4,206 | | | | 2,900 | |
| Do | First street east | Third street east | 35 | *3,985 | | | | | 17,111 |
| Do | Third street east | Ninth street east | 35 | *5,708 | | | | 3,033 | |
| Do | Massachusetts avenue | Eastern Branch | 35 | | | | | | 14,800 |
| Do | Delaware avenue | Maryland avenue | 46 | 5,690 | | | 1,819 | | |
| Do | Maryland avenue | Eleventh street east | 35 | *7,059 | | | | | 2,400 |
| Do | Eleventh street east | Eastern Branch | 35 | | | | | | 22,000 |
| Do | New Jersey avenue | Pennsylvania avenue | 45 | 4,282 | | | 2,205 | | |
| Do | Pennsylvania avenue | Fifth street east | 35 | *3,809 | | | | | |
| Do | Fifth street east | Seventh street east | 35 | *3,154 | | | | | |
| Do | Seventh street east | Twelfth street east | 35 | | | | | | |
| Do | Twelfth street east | Eastern Branch | 32 | | | | | | 4,946 |
| Do | Sixth street west | Seventh street west | 56 | | | | 3,132 | | 18,133 |
| Do | Seventh street west | Twelfth street west | 101 | | | | 18,686 | | |
| Do | Twelfth street west | Seventeenth street west | 60 | | 23,582 | | | | 18,680 |
| Do | Seventeenth street west | First street west | 6 | | | | | | |
| Do | do | Delaware avenue | | 5,750 | | | | | |
| Do | do | Third street west | | *3,256 | | | | | |

Cobble from K to Pennsylvania avenue.

Cobble bet. R. R. tracks.

Do.

Do.

Do.

O. c. walk, curb, and gutter.

D 17.—Character and extent of street pavements, July 1, 1888—Continued.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Carriage-way. | | | | | | | Remarks. |
|----------------|------------------------------|-----------------------------------|---------------|----------------------|-----------------|-----------------|-----------------------|----------|----------|---------------------------|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. | Unimproved. |
| B street south | First street west | New Jersey avenue | Feet. 35 | Sq. yds. 2, 100 | Sq. yds. 2, 100 | Sq. yds. 1, 983 | Sq. yds. | Sq. yds. | Sq. yds. | Cobble bet. R. R. tracks. |
| Do | do | Maryland avenue | 35 | *5, 416 | | | | | | |
| Do | Sixth street west | Fourteenth street west | 32 | *12, 810 | | | | | | |
| C street north | Delaware avenue | Third street east. | 38 } | | *6, 271 | | | | | |
| Do | Third street east. | Fourth street east | 32 } | | *1, 505 | | | | | |
| Do | Fourth street east. | Fifth street east | 32 } | | | | | | | |
| Do | Sixth street east. | Eastern Branch | 35 } | *4, 478 | | | | | | |
| C street south | South Capitol | New Jersey avenue | 32 | | | | | | | 26, 204 |
| Do | New Jersey avenue | Third street east | 32 | | | | | | | 890 |
| Do | Third street east | Fourth street east | 32 } | *6, 922 | | | | | | |
| Do | Fourth street east | Sixth street east | 32 } | | | 3, 348 | | | | |
| Do | Sixth street east | Seventh street east | 30 | | | | | | 1, 985 | |
| Do | Seventh street east | Nineteenth street east | 32 | | | | | | | 19, 200 |
| C street north | Delaware avenue | New Jersey avenue | 46 } | | *4, 909 | | 2, 510 | | | |
| Do | New Jersey avenue | First street west | 63 } | | | | | | | |
| Do | Four-and-a-half street west. | Second street west | 30 | *2, 054 | *1, 291 | | | | | |
| Do | do | Louisiana avenue (inter-section). | 46 | *4, 604 | | | | | | |
| Do | Seventh street west | Eighth street west | 46 | | *1, 183 | | | | | |
| Do | Ninth street west | Tenth street west | 40 | | 1, 656 | | | | | |
| Do | Tenth street west | Twentieth street west | 40 | | | | 7, 820 | | | |
| Do | Seventeenth street west | Seventh street west | 32 | | *1, 830 | | | | | 10, 453 |
| C street south | South Capitol | Ninth street west | 35 | *8, 219 | 4, 450 | | | | | 2, 596 |
| Do | Seventh street west | Fourteenth street west | 40 | | | | | | | |
| Do | Ninth street west | Fifteenth street east. | 35 | 3, 253 | | | 1, 180 | | 3, 470 | 20, 509 |
| D street north | North Capitol | New Jersey avenue | 32 | | | | | | | 1, 556 |
| Do | do | | 35 | | | | | | | |

Blue rock about 32 feet wide bet. New Jersey ave. and North Capitol street.

| | | | | | | | | | |
|-----------------|----------------------------------|--------------------------------|-------|--------|--------|--------|---------|---------|---|
| Do..... | New Jersey avenue | Third street west | 36 | 3,818 | ..... | 2,266 | ..... | ..... | Cobble bet. R. R. tracks. |
| Do..... | Sixth street west | Tenth street west | 36 | ..... | *6,278 | ..... | ..... | ..... |  |
| Do..... | Twelfth street west | Fourteenth street west | 40 | ..... | ..... | 3,614 | ..... | ..... |  |
| Do..... | Fourteenth street west | Fifteenth street west | 40 | ..... | ..... | 1,965 | ..... | ..... |  |
| Do..... | Seventeenth street west | Twenty-third street west | 35 | ..... | ..... | ..... | ..... | 8,273 | |
| D street south. | South Capitol | New Jersey avenue | 35 | ..... | ..... | ..... | ..... | 1,750 | |
| Do..... | New Jersey avenue | Third street east | 35 | *1,454 | ..... | ..... | 5,250 | ..... |  |
| Do..... | Second street east | do | 35 | ..... | ..... | ..... | ..... | ..... |  |
| Do..... | Third street east | Sixth street east | 35 | ..... | ..... | ..... | ..... | 3,267 | |
| Do..... | Sixth street east | Seventh street east | 35 | ..... | ..... | 1,890 | ..... | ..... |  |
| Do..... | Seventh street east | Eighth street east | 30 | ..... | 460 | ..... | 931 | ..... |  |
| Do..... | Eighth street east | Nineteenth street east | 32 | ..... | 1,386 | ..... | ..... | 17,810 | |
| Do..... | South Capitol | Four-and-a-half street west. | 35 | *2,362 | ..... | ..... | ..... | 5,400 | |
| Do..... | Four-and-a-half street west. | Fourteenth street west | 35 | ..... | ..... | 10,815 | ..... | ..... |  |
| E street north. | North Capitol | Delaware avenue | 35 | ..... | ..... | ..... | ..... | 2,140 | O. c. wall, curb, and gutter. |
| Do..... | Delaware avenue | Maryland avenue | 35 | ..... | ..... | ..... | 12,810 | ..... |  |
| Do..... | Maryland avenue | Fifteenth street east | 35 | ..... | ..... | ..... | ..... | 9,042 | |
| Do..... | North Capitol | New Jersey avenue | 35 | *2,494 | ..... | ..... | ..... | ..... |  |
| Do..... | New Jersey avenue | Fourth street west | 35 | *4,932 | ..... | ..... | ..... | ..... |  |
| Do..... | Fifth street west | Eleventh street west | 40 | *9,323 | ..... | ..... | ..... | ..... |  |
| Do..... | Eleventh street west | Thirteenth street west | 40 | ..... | *2,487 | ..... | ..... | ..... |  |
| Do..... | Thirteenth street west | Pennsylvania avenue | 41-48 | *1,093 | ..... | ..... | ..... | ..... | Asphalt block. |
| Do..... | Thirteen-and-a-half street west. | Fifteenth street west | 40 | ..... | ..... | 2,720 | ..... | ..... |  |
| Do..... | Seventeenth street west | Virginia avenue | 32 | ..... | ..... | 10,468 | ..... | ..... |  |
| Do..... | Virginia avenue | Twenty-third street west | 32 | ..... | ..... | ..... | 1,600 | ..... |  |
| Do..... | Twenty-third street west | Twenty-seventh street west. | 32 | ..... | ..... | ..... | ..... | 5,871 | |
| E street south | South Capitol | New Jersey avenue | 35 | ..... | ..... | ..... | *2,420 | ..... | Curb set on north side. |
| Do..... | First street east | Nineteenth street east | 35 | ..... | ..... | ..... | *12,486 | ..... | O. c. walk, curb, and gutter, from 11th to 19th street. |
| Do..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 17,476 | Asphalt from 3d st. to 7th st. |
| Do..... | South Capitol | Fourteenth street west | 35 | *8,236 | ..... | ..... | ..... | ..... |  |
| Do..... | North Capitol | Maryland avenue | 35 | ..... | ..... | ..... | ..... | *15,000 | |
| Do..... | Maryland avenue | Fifteenth street east | 35 | ..... | ..... | ..... | ..... | 20,000 | |
| Do..... | North Capitol | New Jersey avenue | 35 | *2,962 | ..... | ..... | ..... | ..... |  |
| Do..... | New Jersey avenue | Fourth street west | 35 | *4,382 | ..... | ..... | ..... | ..... |  |
| Do..... | Fifth street west | Seventh street west | 51 | *5,090 | ..... | ..... | ..... | ..... |  |
| Do..... | Seventh street west | Ninth street west | 57 | *1,913 | *527 | 1,419 | ..... | ..... | Cobble bet. R. R. tracks. |
| Do..... | Ninth street west | Fifteenth street west | 60 | 11,684 | ..... | 4,100 | ..... | ..... | Do. |
| Do..... | Seventeenth street west | Eighteenth street west | 40 | *2,856 | ..... | ..... | ..... | ..... | Do. |
| Do..... | Eighteenth street west | Twenty-second street west. | 40 | 8,790 | ..... | ..... | ..... | ..... |  |
| Do..... | Twenty-second street west. | Twenty-seventh street west. | 32 | ..... | ..... | ..... | ..... | 6,947 | |
| street south | South Capitol | Four-and-a-half street west. | 35 | ..... | *6,777 | ..... | ..... | 998 | |
| Do..... | Four-and-a-half street west. | Seventh street west | 35 | *4,206 | ..... | ..... | ..... | ..... |  |
| Do..... | Seventh street west | Water street | 35 | ..... | ..... | 6,838 | ..... | ..... |  |

D 17.—Character and extent of street pavements, July 1, 1888—Continued.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Carriage-way. | | | | | | | | Remarks. |
|----------------|----------------------------|---------------------------------|---------------|----------------------|----------|----------|-----------------------|----------|----------|-------------|---|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. | Unimproved. | |
| G street north | North Capitol | Fifteenth street east | Feet. 35 | Sq. yds. | Sq. yds. | Sq. yds. | Sq. | Sq. yds. | Sq. yds. | Sq. yds. | Gravel from 6th to 13th st. |
| Do | do | First street west | 35 | *3,802 | | | | | 16,683 | 7,408 | |
| Do | First street west | Seventh street west | 35 | 8,683 | | | 1,890 | | 3,210 | | Cobble bet. K. R. tracks. |
| Do | Seventh street west | Fifteenth street west | 40 | 15,097 | | | | | | | |
| Do | Seventeenth street west | Twenty-second street west. | 36 | 10,275 | | | | | | | |
| Do | Twenty-second street west. | Twenty-seventh street west. | 36 | | 9,511 | | | | | | |
| G street south | Third street east | Seventeenth street east | 35 | | | | | *10,887 | | 10,019 | O. c. walk, curb, and gutter, from 11th to 14th street. |
| Do | South Capitol | Four-and-a-half street west. | 35 | | | | | | | 2,167 | O. c. walk, curb, and gutter, from 2d to 4½ street. |
| Do | Four-and-a-half street | Eleventh street west | 35 | *10,982 | | | | | | | |
| H street north | North Capitol | First street east | 56 | *4,604 | | | 1,550 | | | | Cobble bet. R. R. tracks. |
| Do | First street east | Fifteenth street east | 56 | *15,490 | | | 23,524 | 2,000 | | | 9,204 square yards bet. R. R. tracks. |
| Do | North Capitol | First street west | 50 } | | *8,337 | | 3,000 | | | | Cobble bet. R. R. tracks. |
| Do | First street west | Fourth street west | 56 } | | | | | | | | |
| Do | Third street west | Seventh street west | 56 | *7,165 | | | | | | | |
| Do | Seventh street west | Thirteenth street west | 35 | 9,067 | | | | | | | |
| Do | Thirteenth street west | Fourteenth street west | 40 | 2,144 | | | | | | | |
| Do | Fourteenth street west | Fifteenth street west | 56 | *1,948 | | | 655 | | | | Cobble bet. R. R. tracks |
| Do | Fifteenth street west | Fifteen-and-a-half street west. | 56 | 1,729 | | | 1,900 | | | | 15th to 17th street, cobble bet. R. R. tracks. |
| Do | Vermont avenue | Nineteenth street west. | 56 | *8,328 | | | | | | | |
| Do | Pennsylvania avenue | Twenty-second street west. | 32 | 6,493 | | | | | | | |
| Do | Twenty-second street west. | Twenty-seventh street west. | 32 | | | | 9,422 | | | | |
| I street south | South Capitol | Water street | 35 | *8,872 | | | | | | | |
| I street north | North Capitol | Boundary | 35 | | 1,581 | | | | 11,931 | 5,444 | Gravel from North Capitol to 1st street east and from 7th to Boundary street. |

| | | | | | | | | | | |
|----------------|---------------------------|------------------------------------|----|--|--|--|--|----------------|----------------|--|
| I street south | South Capitol | Georgia avenue | 35 | | | | | 1,566 | 15,899 | O. c. walk, curb, and gutter,
3d to 5th and 7th to 11th st. |
| I street north | North Capitol | New Jersey avenue | 35 | | | | | | | |
| Do | New Jersey avenue | Massachusetts avenue | 35 | | | | | | | |
| Do | Fifth street west | Eighth street west | 32 | | | | | | | |
| Do | Eighth street west | Ninth street west | 32 | | | | | | | |
| Do | Ninth street west | Tenth street west | 32 | | | | | | | |
| Do | Tenth street west | Eleventh street west | 32 | | | | | | | |
| Do | Eleventh street west | Fifteenth street west | 32 | | | | | | | |
| Do | Fifteenth street west | Vermont avenue | 56 | | | | | | | |
| Do | Vermont avenue | Seventeenth street west | 40 | | | | | | | |
| Do | Seventeenth street west | Eighteenth street west | 40 | | | | | | | |
| Do | Eighteenth street west | Nineteenth street west | 40 | | | | | | | |
| Do | Nineteenth street west | Twentieth street west | 40 | | | | | | | |
| Do | Twentieth street west | Pennsylvania avenue | 40 | | | | | | | |
| Do | Pennsylvania avenue | Twenty-sixth street west | 40 | | | | | | | |
| I street south | South Capitol | Water street | 35 | | | | | 583 | 12,163 | O. c. walk, curb, and gutter,
4½ to 7th street. |
| K street north | North Capitol | Seventh street east | 50 | | | | | 19,556 | | |
| Do | Seventh street east | Boundary street | 50 | | | | | | 8,378 | |
| Do | North Capitol | Third street west | 50 | | | | | | | |
| Do | Third street west | Seventh street west | 50 | | | | | | | |
| Do | Seventh street west | Ninth street west { N. S.
S. S. | 30 | | | | | | | |
| Do | Ninth street west | Eighteenth street west | 50 | | | | | | | |
| Do | Eighteenth street west | Pennsylvania avenue | 50 | | | | | | | |
| Do | Twenty-fourth street west | Twenty-eighth street west | 50 | | | | | | | |
| K street south | South Capitol | Canal | 35 | | | | | | | |
| Do | Canal | Seventh street east | 60 | | | | | 775 | 4,163
7,430 | Baltimore and Potomac R.
R. tracks, 20 feet wide. |
| Do | Seventh street east | Eastern Branch | 35 | | | | | | 14,855 | O. c. walk, curb, and gutter,
from 7th to 11th street. |
| Do | South Capitol | Water street | 35 | | | | | | 13,700 | O. c. walk, curb, and gutter,
from 4½ to 7th street. |
| L street north | North Capitol | Boundary street | 32 | | | | | | 15,154 | O. c. walk, curb, and gutter, |
| Do | New Jersey avenue | New Jersey avenue | 32 | | | | | | 4,700 | |
| Do | Fourth street west | Fourth street west | 32 | | | | | | | |
| Do | Fifth street west | Fifth street west | 32 | | | | | | | |
| Do | Sixth street west | Sixth street west | 32 | | | | | | | |
| Do | Seventh street west | Seventh street west | 32 | | | | | | | |
| Do | Eighth street west | Eighth street west | 32 | | | | | | | |
| Do | Ninth street west | Ninth street west | 32 | | | | | | | |
| Do | Tenth street west | Tenth street west | 32 | | | | | | | |
| Do | Eleventh street west | Eleventh street west | 32 | | | | | | | |
| Do | Twelfth street west | Twelfth street west | 32 | | | | | | | |
| L street south | South Capitol | Rock Creek | 32 | | | | | 1,422 | | O. c. walk, curb, and gutter,
from 3d to 5th and 7th to
9th streets. |
| Do | Eastern Branch | Eastern Branch | 35 | | | | | | 27,533 | O. c. walk, curb, and gutter,
from 1st to 6th street. |
| Do | Water street | Water street | 35 | | | | | | 12,522 | |
| M street north | North Capitol | First street east | 32 | | | | | | | |
| Do | First street east | Boundary street | 32 | | | | | 2,845
7,964 | | |

D 17.—Character and extent of street pavements, July 1, 1888—Continued.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Carriage-way. | | | | | | Remarks. | |
|----------------------|---------------------------------|---------------------------------|---------------|----------------------|-------------------|-------------------|-----------------------|-------------------|-------------------|--------------------------------------|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | | Gravel. | Unimproved. |
| M street north..... | North Capitol | New Jersey avenue | Feet.
32 | Sq. yds.
..... | Sq. yds.
..... | Sq. yds.
..... | Sq. yds.
..... | Sq. yds.
..... | Sq. yds.
..... | 6,084 square yards paved since 1878. |
| Do | New Jersey avenue | Sixth street west | 32 | *5,589 | | | | Sq. yds.
4,266 | | |
| Do | Sixth street west | Fourteenth street west | 32 | *13,147 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Fourteenth street west | Sixteenth street west | 40 | *4,573 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Sixteenth street west | New Hampshire avenue | 40 | *11,875 | ..... | ..... | ..... | ..... | ..... |  |
| Do | New Hampshire avenue | Twenty-sixth street west | 40 | *9,171 | ..... | ..... | ..... | ..... | ..... |  |
| N street north | North Capitol | Boundary | 32 | ..... | ..... | ..... | ..... | ..... | 7,300 | |
| Do | do | New Jersey avenue | 32 | ..... | ..... | ..... | ..... | ..... | 5,664 | |
| Do | New Jersey avenue | Fifth street west | 32 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Do | Fifth street west | Ninth street west | 32 | *4,454 | ..... | ..... | ..... | ..... | 2,844 | |
| Do | Ninth street west | Fourteenth street west | 32 | *6,892 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Fourteenth street west | Scott Square | 32 | *3,236 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Scott Square | Twenty-first street west | 32 | 7,074 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Twenty-first street west | Rock Creek | 32 | ..... | ..... | ..... | ..... | *1,870 | 5,319 | |
| N street south | Fourth street east | Sixth street west | 35 | ..... | ..... | ..... | 19,520 | ..... | ..... |  |
| Do | Ninth street east | Eastern Branch | 32 | ..... | ..... | ..... | ..... | ..... | 4,878 | |
| O street north | North Capitol | Boundary | 32 | ..... | ..... | ..... | ..... | ..... | 4,622 | |
| Do | do | New Jersey avenue | 32 | ..... | ..... | ..... | ..... | ..... | 6,172 | |
| Do | New Jersey avenue | Thirteenth street west | 32 | 14,530 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Fifteenth street west | Sixteenth street west | 32 | 1,663 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Sixteenth street west | Seventeenth street west | 32 | *1,697 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Twentieth street west | Rock Creek | 32 | *2,011 | ..... | ..... | ..... | ..... | 2,384 | |
| O street south | South Capitol | Eastern Branch | 32 | ..... | ..... | ..... | ..... | ..... | 3,200 | |
| Do | do | Water street | 32 | ..... | ..... | ..... | ..... | ..... | 8,530 | |
| P street north | North Capitol | Boundary | 32 | ..... | ..... | ..... | ..... | ..... | 3,510 | |
| Do | do | New Jersey avenue | 32 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Do | New Jersey avenue | Eighteenth street west | 32 | *21,716 | ..... | ..... | 1,555 | 7,691 | ..... |  |
| Do | Eighteenth street west | Du Pont Circle | 32 | 1,569 | ..... | ..... | ..... | ..... | ..... |  |
| Do | Twentieth street west | Twenty-second street west | 40 | ..... | *3,481 | ..... | ..... | ..... | ..... |  |
| Do | Twenty-second street west | Rock Creek | 40 | 674 | ..... | ..... | ..... | ..... | ..... |  |
| P street south | South Capitol | Eastern Branch | 32 | ..... | ..... | ..... | ..... | ..... | 3,342 | |
| Do | do | Water street | 30 | ..... | ..... | ..... | ..... | ..... | 9,090 | |

O. c. walk, curb, and gutter.

Cobble bet. R. R. tracks.

6,084 square yards paved since 1878.

[illegible]

D 17.—Character and extent of street pavements, July 1, 1888—Continued.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1888.]

| Street. | From— | To— | Carriage-way. | | | | | | | Remarks. |
|----------------------|------------------------------|------------------------------|---------------|-----------------------|----------|----------|-----------------------|----------|----------|--|
| | | | Width. | ▲Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. |  | Unimproved. |
| Maryland avenue | First street east | Fifteenth street east | Feet. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Cobble in R. R. tracks, Fourth to Seventh street. |
| Massachusetts avenue | Boundary street | Du Pont Circle | 60 | *11,535 | | | | | 31,000 | |
| Do | Du Pont Circle | Scott Square | 50 | 5,817 | | | | | | |
| Do | Scott Square | Thomas Circle | 50 | 8,348 | | | | | | |
| Do | Thomas Circle | Ninth street west | 50 | 5,550 | | | | | | |
| Do | Seventh street west | New Jersey avenue | 50 | *12,910 | | | 2,546 | | | Cobble between R. R. tracks, 933 square yards. |
| Do | New Jersey avenue | Eleventh street east | 50 | *5,143 | | | | | 27,692 | |
| Do | Eleventh street east | Nineteenth street east | 50 | | *2,562 | | | | 20,000 | |
| Missouri avenue | Third street west | Four-and-a-half street west. | 35 | | | | | | | |
| Do | Four-and-a-half street west. | Sixth street west | 35 | | | | 2,452 |  |  |  | Gravel to Sixteenth street. Cobble bet. R. R. tracks. |
| New Hampshire avenue | Twenty-seventh street west. | G street north | 50 | | | | | | 5,000 | |
| Do | Pennsylvania avenue | do | 50 | | | | 7,967 | | | |
| Do | do | M street north | 50 | *6,992 | | | | | | |
| Do | M street north | Du Pont Circle | 50 | *10,047 | | | | | | |
| Do | Du Pont Circle | Q street north | 50 | *2,537 | | | | | | Do. Cobble bet. R. R. tracks; two road ways, 29 feet each. |
| New Jersey avenue | Q street north | Boundary | 50 | | | | | | 14,084 | |
| Do | B street north | D street north | 60 | 5,247 | 1,177 | | | | 7,872 | |
| Do | D street north | H street north | 60 | *14,274 | | | 588 | | | |
| Do | H street north | O street north | 50 | *17,861 | | | | | | |
| Do | O street north | Boundary | 50 | *11,127 | | | | | | Do. |
| Do | B street south | E street south | 50 | *9,381 | | | | | | |
| Do | E street south | Canal | 50 | *7,519 | | | | | | |
| Do | Canal | M street south | 50 | | | | | 6,868 | | |
| Do | M street south | N street south | 50 | | | | | | | |
| New York avenue | Nineteenth street west | Twenty-fourth st. west | 50 | | | | | | 3,112 | |
| Do | Seventeenth street west | Eighteenth street west | 50 | 3,766 | | | | | 11,388 | |
| Do | Fourteenth street west | Fifteenth street west | 86 | 3,424 | | | | | | |
| Do | Ninth street west | Fourteenth street west | | 19,880 | | | 876 | | | |
| Do | Seventh street west | North Capitol street | 50 | | | | 3,857 | | | |
| | | | | | | | | 25,964 | | |

| Do | North Capitol | Boundary | 50 | 2, 138 | 11, 355 | 7, 225 | 2, 164 square yds. bet. R. R. tracks. |
|---|------------------------|------------------------|---------|--------|----------|---------|--|
| North Carolina avenue | New Jersey avenue | Lincoln Square | 50 | ..... | ..... | 16, 862 | 4,399 sq. yds. asphalt, paved since 1878. Cobble bet. R. R. tracks. |
| Do | Lincoln Square | C street south | 50 | ..... | ..... | 11 110 | Cobble bet. R. R. tracks. |
| Ohio avenue | B street north | Fifteenth street north | 60 | ..... | 11, 355 | ..... | Granite bet. R. R. tracks. 14,427 sq. yards paved since 1878. Cobble bet. R. R. tracks. 1 road way, 50 ft. to 2d st., 2 of 38 ft. each to Eighth street. |
| Pennsylvania avenue | Rock Creek | Washington Circle | 80 | ..... | 11, 355 | ..... | 2 roadways, 38 feet each. O. c. walk, curb, and gutter from 11th to 14th street. |
| Do | Washington Circle | Eighteenth street west | 80 | ..... | 19, 302 | ..... | Gravel from Fifth street to Boundary street. |
| Do | Eighteenth street west | Fifteenth street west | 85 | ..... | *15, 959 | ..... | O. c. walk, curb, and gutter from 11th to 14th street. |
| Do | Fifteenth street west | First street west | 108-5 | ..... | 78, 521 | ..... | Gravel bet. 3d and 4th sts. |
| Do | First street east | Eighth street east | 29, 204 | ..... | 29, 204 | ..... | O. c. walk, curb, and gutter from South Capitol st. to 7th st. west. Blue rock on north side bet. 6th and intersection of D sts. Granite block pavement 25 ft. wide, on south side bet. 4th and 6th sts., and cobble, 25 ft. wide, bet. 6th & 7th sts. Cobble bet. R. R. tracks. |
| Do | Eighth street east | Eleventh street east | 50 | ..... | *5, 356 | ..... | Asphalt pavement to R. st. Cobble bet. R. R. tracks, 382 sq. yards of asphalt blocks. |
| Do | Eleventh street east | Eastern Branch | 50 | ..... | ..... | ..... | Asphalt blocks. |
| Rhode Island avenue | Connecticut avenue | Scott Square | 50 | ..... | 5, 410 | ..... |  |
| Do | Scott Square | Iowa Circle | 50 | ..... | *7, 704 | ..... |  |
| Do | Iowa Circle | Boundary street | 50 | ..... | *17, 224 | ..... |  |
| South Carolina avenue | Second street east | Third street east | 50 | ..... | ..... | ..... |  |
| Do | Third street east | Eleventh street east | 50 | ..... | 877 | ..... |  |
| Do | Eleventh street east | Massachusetts avenue | 50 | ..... | ..... | ..... |  |
| Tennessee avenue | Lincoln Square | Fifteenth street east | 50 | ..... | ..... | ..... |  |
| Virginia avenue | South Capitol | Eleventh street east | 50 | ..... | ..... | ..... |  |
| Do | Eleventh street east | Eastern branch | 50 | ..... | ..... | ..... |  |
| Do | South Capitol | Seventh street west | 50 | ..... | *1, 722 | ..... |  |
| Do | Ninth street west | Twelfth street west | 50 | ..... | *4, 111 | ..... |  |
| Do | B street north | G street north | 50 | ..... | ..... | ..... |  |
| Do | G street north | Twenty-eighth st. west | 50 | ..... | ..... | 21, 110 | |
| Vermont avenue | H street north | I street north | 93 | ..... | 4, 156 | ..... |  |
| Do | K street north | Thomas Circle | 59 | ..... | *6, 536 | ..... |  |
| Do | Thomas Circle | Iowa Circle | 50 | ..... | *6, 149 | ..... |  |
| Do | Iowa Circle | Boundary | 50 | ..... | *6, 103 | ..... |  |
| Do | Third street west | Sixth street west | 60 | ..... | *5, 897 | ..... |  |
| Do | ..... | ..... | ..... | ..... | 1, 711 | ..... |  |
| Do | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Intersection of Louisiana avenue, Seventh, and C streets. | ..... | ..... | ..... | ..... | *3, 214 | ..... |  |
| Intersection of Louisiana and Ohio avenues. | Tenth street west | Twelfth street west | 50 | ..... | 3, 460 | ..... |  |

D 17.—Character and extent of street pavements, July 1, 1888—Continued.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

| Street. | From— | To— | Carriage-way. | | | | | | Remarks. | | |
|--------------------|-------------------------------|--------------------------------|---------------|----------------------|----------|----------|-----------------------|----------|----------|----------|-------------|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | | Gravel. | Unimproved. |
| | | | Feet. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | Sq. yds. | |
| Mount Vernon Place | Seventh street west | Ninth street west | 50 | 3,899 | | | | 835 | | | |
| Thomas Circle | Intersection | Fourteenth and M sts. | 36 | *6,000 | | | | 718 | | | |
| Iowa Circle | do | Thirteenth and P streets | 65 | 5,594 | | | | | | | |
| Scott Square | do | Sixteenth and N streets | 45 | 12,560 | | | | | | | |
| Du Pont Circle | do | Nineteenth and P streets | 56 | 5,240 | | | | 1,228 | | | |
| Washington Circle | do | Twenty-third and K sts. | | 6,083 | | | | 1,100 | | | |
| Opera Square | do | Ninth and C streets | 30 | | 600 | | | | | | |
| California street | First street northeast | Second street northeast | 20 | | | | | | | 2,143 | |
| Callan street | Sixth street northeast | Seventh street northeast | 30 | | | | | | | 1,367 | |
| Carroll street | First street southeast | Second street southeast | 24 | | | | | | 2,030 | | |
| Caroline street | Fifteenth street north-west. | Sixteenth street north-west. | 30 | | | | | | 1,384 | | |
| Cedar street | Eighteenth street north-west. | Nineteenth street north-west. | 32 | | | | | | | 1,570 | |
| Chicago street | First street northeast | Second street northeast | 30 | | | | | | | 2,285 | |
| Columbia street | O street northwest | Q street northwest | 30 | 2,886 | | | | | | | |
| Corcoran street | Thirteenth street north-west. | Fourteenth street north-west. | 24 | 2,067 | | | | | | | |
| Do | Fourteenth street north-west. | Seventeenth street n'th-west. | | 2,129 | | | | | | | |
| Cleveland avenue | W street. | Boundary | 22 | *1,297 | | | | | | | |
| Defrees street | First street northwest | North Capitol street | 40 | *1,967 | | | | | | | |
| De Sales street | Seventeenth street n'th-west. | Connecticut avenue | 20 | 2,493 | | | | | | | |
| Eldridge street | Twentieth street north-west. | Twenty-first street n'th-west. | 30 | | | | | | | 1,033 | |
| Franklin street | New Jersey avenue. | Fifth street west | 30 | | | | | | 1,667 | | |
| French street | Ninth street west. | Tenth street west | 24 | | | | | | 1,633 | | |
| Grant Place | do | do | 21-5 | 1,435 | | | | | | | |
| Highland Terrace | Fourteenth street west | Fifteenth street west | 27 | 1,248 | | | | | | | |
| Hillier Place | Twentieth street west | Twenty-first street west | 35 | *1,552 | | | | | | | |
| Ivy Place | South Capitol street | New Jersey avenue | 20 | | | | | | | | |
| Jackson street | North Capitol street | First street east | 20 | | | | | 1,738 | | 2,131 | |
| James street | Twelfth street n'theast | Thirteenth street east. | 27 | | | | | | | 1,151 | |
| Jefferson Place | Connecticut avenue | Nineteenth street west. | | 1,393 | | | | | | | |

| | | | | |
|-------------------------|---------------------------------------|---------------------------------------|--------|--------|
| Johnson Place..... | R street northwest..... | S street northwest..... | 30 | 1,700 |
| Kingman Court..... | P street northwest..... | Q street northwest..... | 30 | 1,500 |
| Kirby street..... | New York avenue..... | N street northwest..... | 32 | 1,760 |
| Lawrence street..... | Eighteenth street north-west..... | Nineteenth street north-west..... | 30 | 1,570 |
| Madison street..... | M street northwest..... | N street northwest..... | 30 | 372 |
| Marion street..... | P street northwest..... | R street northwest..... | 26 | 2,600 |
| Monroe street..... | Sixteenth street north-west..... | Seventeenth street north-west..... | 24 | 1,387 |
| McLean avenue..... | Third street..... | Four and-a-half street southwest..... | *2,127 | |
| Myrtle street..... | North Capitol street..... | First street northeast..... | 20 | 1,738 |
| Oregon street..... | Eighteenth street north-west..... | Nineteenth street north-west..... | 30 | 2,433 |
| Park street..... | Eleventh street north-east..... | Twelfth street northeast..... | 30 | 1,110 |
| Pierce Place..... | Fifteenth street north-west..... | Sixteenth street north-west..... | 30 | 1,715 |
| Pierce street..... | Fourteenth street north-west..... | Fifteenth street north-west..... | 30 | 2,154 |
| Ridge street..... | Fourth street northwest..... | Fifth street northwest..... | 32 | 2,674 |
| Riggs street..... | Thirteenth street north-west..... | Fourteenth street north-west..... | 30 | *2,030 |
| Sansom street..... | Fourteenth street north-west..... | Seventeenth street north-west..... | 24 | 2,674 |
| School street..... | Four and-a-half street southwest..... | Sixth street southwest..... | 34 | 2,346 |
| Sherman street..... | Eighteenth street north-west..... | Nineteenth street north-west..... | 20 | 1,046 |
| Sunderland Place..... | New Hampshire avenue..... | do..... | *1,185 | |
| Union street..... | M street south..... | O street south..... | 30 | 5,333 |
| Washington street..... | Fourth street west..... | Fifth street west..... | 35 | 3,850 |
| Wallach Place..... | Thirteenth street west..... | Fourteenth street west..... | 30 | *2,075 |
| Warner street..... | Fifth street west..... | New Jersey avenue..... | 30 | 1,600 |
| Water street..... | Seventh street west..... | Twelfth street west..... | 50 | 16,858 |
| Do..... | Twelfth street west..... | Thirteen-and-a-half street west..... | 50 | *2,827 |
| Do..... | Seventh street west..... | Sixth street west..... | 50 | *6,306 |
| Do..... | Sixth street west..... | O street south..... | 50 | 3,359 |
| Westminster street..... | Ninth street west..... | Tenth street northwest..... | 30 | 1,777 |

GEORGETOWN.

| | | 9, 026 | ..... | 2, 833 | ..... |  | Cobble between R. R. tracks |
|----------------------|---------------------------|--------|---------|--------|-------|-------------------------------|-----------------------------|
| M street..... | Rock Creek..... | 50 | ..... | ..... | ..... | Do. | ..... |
| Do..... | Thirty-first street..... | 50 | 13, 684 | 1, 322 | ..... | Do. | ..... |
| Water street..... | Rock Creek..... | 50 | 18, 021 | ..... | ..... | Do. | ..... |
| Olive street..... | do..... | 44 | ..... | ..... | ..... | Do. | 1, 566 |
| Do..... | Twenty-eighth street..... | 30 | ..... | 1, 946 | ..... | Do. | ..... |
| Prospect street..... | Thirty-second street..... | 30 | ..... | 2, 504 | ..... | Do. | ..... |
| Do..... | Potomac street..... | 30 | ..... | ..... | ..... | Do. | 4, 339 |
| | Thirty-sixth street..... | 30 | ..... | ..... | ..... | O. c. walk, curb, and gutter. | ..... |

D 17.—Character and extent of street pavements, July 1, 1888—Continued.

GEORGETOWN.

[Streets marked thus * have been paved since July 1, 1888.]

| Street. | From— | To— | Carriage-way. | | | | | | | Remarks. | |
|-----------------------|-----------------------|------------------------|---------------|----------------------|-------------------|-------------------|-----------------------|-------------------|-------------------|-----------------|--|
| | | | Width. | Asphalt or concrete. | Granite. | Wood. | Cobble and blue rock. | Macadam. | Gravel. | | Unimproved. |
| N street | Rock Creek | Twenty-eighth street. | Feet.
30 | Sq. yds.
..... | Sq. yds.
..... | Sq. yds.
..... | Sq. yds.
959 | Sq. yds.
..... | Sq. yds.
..... | Sq. yds.
870 | Cobble from 27th to 28th st. |
| Do | Twenty-eighth street. | Thirty-second street | 30 | *5,505 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Do | Thirty-second street. | Thirty-fifth street | 30 | *5,689 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Do | Thirty-fifth street | Thirty-seventh street | 30 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| O street | Thirty-second street. | Thirty-fifth street | 30 | ..... | *4,435 | ..... | ..... | 780 | ..... | 2,283 | O. c. walk, curb, and gutter. |
| Do | Thirty-fifth street | Thirty-seventh street. | 30 | ..... | ..... | ..... | ..... | ..... | 2,283 | ..... | Cobble between R. R. tracks. |
| Do | Rock Creek. | Twenty-seventh street. | 30 | ..... | ..... | ..... | ..... | ..... | 2,000 | ..... |  |
| Do | Twenty-seventh street | Twenty-ninth street | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 1,166 | |
| Do | Twenty-ninth street | Thirty-second street | 30 | *4,829 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Dunbarton street | do | Thirty-first street | 30 | ..... | ..... | ..... | ..... | 444 | ..... | ..... |  |
| Do | Thirty-first street. | Thirty-second street | 30 | ..... | ..... | ..... | ..... | 1,758 | 2,072 | ..... | Do. |
| Do | Thirty-second street | Twenty-eighth street. | 30 | *3,609 | ..... | ..... | ..... | ..... | 6,083 | ..... | 300 sq yds. bet. R. R. tracks. |
| P street | Twenty-eighth street. | Rock Creek. | 30 | ..... | *4,350 | ..... | ..... | 765 | ..... | 3,166 | |
| Do | Thirty-second street | Thirty-seventh street. | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 2,084 | 765 sq. yds. bet. R. R. tracks. |
| Do | Rock Creek | Twenty-eighth street. | 40 } | ..... | *10,880 | ..... | ..... | 4,113 | ..... | ..... | Cobble between R. R. tracks. |
| Do | Twenty-eighth street | Thirty-second street. | 30 } | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Q street | Thirty-second street | Thirty-fifth street | 30 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Do | do | Twenty-eighth street. | 30 | *5,010 | ..... | ..... | ..... | ..... | ..... | 3,800 | O. c. walk, curb, and gutter from 32d to 35th street. |
| R street | do | do | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 1,867 | O. c. walk, curb, and gutter, part of the way on south side. |
| S street. | do | Thirty-fifth street | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 3,365 | O. c. walk, curb, and gutter from 32d to 34th street. |
| T street | do | do | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 2,577 | |
| V street | Thirty-third street | do | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 2,567 | |
| Do | do | do | 30 | ..... | ..... | ..... | ..... | ..... | 9,000 | 2,067 | |
| Twenty-seventh street | M street | Twenty-eighth street. | 30 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Twenty-eighth street. | P street | P street | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 4,750 | |
| Do | do | do | 30 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Do | P street | U street | 30 | ..... | ..... | ..... | ..... | 5,479 | ..... | ..... |  |
| Twenty-ninth street | M street | Water street | 30 | ..... | ..... | ..... | ..... | ..... | 4,610 | ..... |  |
| Do | do | P street | 30 | *2,940 | ..... | ..... | ..... | 2,919 | ..... | ..... |  |
| Do | P street | U street | 30 | ..... | *1,885 | ..... | ..... | ..... | ..... | ..... |  |
| | | | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 4,610 | O. c. walk, curb, and gutter. |

K.

REPORT OF THE SURVEYOR.

SURVEYOR'S OFFICE, DISTRICT OF COLUMBIA,
Washington, September 16, 1888.

GENTLEMEN: I have the honor herewith to submit report of the transactions of this office for the fiscal year ending June 30, 1888.

During that period 876 orders for surveys were received from private parties, and 199 subdivisions recorded and certified copies issued.

Services were rendered for the District of Columbia, per order of the Commissioners, as follows, viz:

Six surveys of lots, streets, alleys, roads, and lots for schools.

Five plats of opening new roads in the county were recorded, as follows: Nourse road, from Klinge road to Tennallytown road. First street west (extended), from Boundary street to the south line of Dobbins' addition to Washington. North Capitol street (extended), from south line of Mrs. Barbour's property to the south line of Prospect Hill Cemetery. Michigan avenue (extended), from the northeast corner of Dobbins' addition to Lincoln avenue. Widening road on south side Mount Olivet Cemetery, from the Bladensburgh turnpike to Baltimore and Ohio Railroad.

Sixteen reports (after investigation) upon alleys and miscellaneous subjects. Eleven plats, maps, and tracings.

I respectfully renew request in report for year 1887, "that an appropriation of \$500 be asked of Congress for the purpose of mounting and preserving valuable maps and old records fast going to decay, for files and shelves for current records, record-books, and stationery."

Very respectfully, your obedient servant,

WM. FORSYTH,
Surveyor, District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.
(Through Engineer Commissioner.)

L.

REPORT OF INSPECTOR OF BUILDINGS.

OFFICE OF INSPECTOR OF BUILDINGS,
October 20, 1888.

GENTLEMEN: I have the honor to transmit herewith my annual report, covering the transactions of this department during the fiscal year ending June 30, 1888, together with estimates and recommendations for the fiscal year ending June 30, 1890.

Statement of permits issued from July 1, 1887, to June 30, 1888.

| Description. | Number. | Estimated value. |
|------------------------------|---------|------------------|
| Brick dwellings | 1, 449 | \$4, 431, 761 |
| Brick private stables | 73 | 91, 200 |
| Brick livery stables | 2 | 4, 500 |
| Brick work-shops | 12 | 28, 425 |
| Brick stores | 36 | 175, 750 |
| Brick office buildings | 10 | 131, 775 |
| Brick churches | 3 | 49, 100 |
| Brick private schools | 2 | 127, 500 |
| Brick hotels | 3 | 88, 000 |
| Brick hospital | 1 | 50, 000 |
| Brick bakeries | 2 | 5, 700 |
| Brick bank | 1 | 54, 000 |
| Brick retort-house | 1 | 30, 000 |
| Brick pump-houses | 2 | 3, 200 |
| Brick engine-house | 1 | 20, 000 |
| Brick warehouses | 13 | 98, 700 |
| Brick repairs | 548 | 468, 410 |
| Frame dwellings | 250 | 302, 220 |
| Frame stables | 5 | 4, 090 |
| Frame churches | 3 | 3, 000 |
| Frame offices | 3 | 4, 450 |
| Frame repairs | 491 | 76, 778 |
| Frame removals | 16 | 575 |
| Frame sheds | 284 | 20, 860 |
| Awnings | 88 | ..... |
| Parking railings | 395 | ..... |
| Total | 3, 694 | 6, 269, 994 |

Four hundred and forty-six and a half linear feet of vault, and 45, 885 cubic feet of vault.

There were issued during the year 814 permits for the use of water for building purposes, amounting to \$2,064.45. The fees from building permits amount to \$7,846.55, making the total revenue for the year \$9,911.55. By reference to the foregoing statement it will be seen that there have been erected 1,699 dwellings; buildings of all classes, 1,877; repairs and additions, 1,339; being 552 dwellings and 304 repairs and additions and in value \$739,730 less than the preceding year.

There have been condemned as dilapidated and dangerous and ordered taken down 25 brick and 33 wooden buildings. There have been condemned 20 party walls, as insufficient for the adjacent new structures, and ordered to be taken down and reconstructed.

The following notices have been served, viz: Twenty-four to vacate dangerous structures; 40 to connect rain spouts to sewer or gutter; 85 to reconstruct and make safe defective buildings; 19 to vacate wooden

buildings as stables; 23 to protect dangerous areas and steps; 8 to repair dangerous vaults; 19 to remove to the line parking fences; 171 numbers of houses have been ordered changed.

I must again call your attention to the necessity for at least two more assistants on the general inspection of buildings under construction, as also to prevent in various ways the violations of the regulations in the erection and occupancy of wooden structures. This work, and the numerous complaints that we are required to answer and investigate, can not be properly attended to with the limited force now employed.

The great amount of work placed in this office by law of Congress, together with the routine office work, so far consumes my time that I can give but little attention to private buildings. All construction is defined in the office when the permit is issued, but it is necessary in every building to see that they comply with the conditions in the strength of construction and safety from fire. Both are of great importance, and should be closely inspected while buildings are in progress.

Being charged also with the supervision of terraces, parking, parking railings, and the renumbering of houses where in confusion, a considerable portion of time is consumed in making examinations, upon application, in such cases.

DISTRICT BUILDINGS.

There have been erected during the past fiscal year, upon plans and specifications prepared in this office and under my supervision, seven 8-room school buildings in the city, one brick and one frame addition to school buildings in the county, and a "tank-tower" and new "family building" upon the grounds of the District Reform School.

The amount appropriated for the purchase of sites and erection of school buildings was expended as follows, viz :

ADDITION TO COLUMBIA ROAD SCHOOL.

| | |
|---|------------|
| Amount of contract No. 768 | \$1,800.00 |
| 306 feet rough board fence | 150.00 |
| New door and frame in old building, similar to one in new building..... | 30.00 |
| 112 feet 6-inch drain pipe, at 35 cents | 39.20 |
| 4 cast-iron terminals, 5 feet long..... | 6.00 |
| 4 T-branches | 3.50 |
| Moving wood-shed and water-closet..... | 30.00 |
| 2 gates in fence..... | 10.00 |
| Services of draughtsman | 25.50 |
| 122 feet dressed picket fence..... | 95.00 |
| Drawing materials | 5.20 |
| Painting front and two ends of building..... | 96.00 |
| Digging well..... | 117.37 |
| Stone steps and paving..... | 28.00 |
| Grading terrace, setting pump, etc | 119.00 |
| 5,000 brick for arching well..... | 36.15 |
| Cucumber pump | 32.10 |
| Printing specifications..... | 14.74 |
| Balance of appropriation | 302.24 |
| Total amount appropriation | 3,000.00 |

ADDITION TO HAMILTON-ROAD SCHOOL.

| | |
|---|----------|
| Amount of contract No. 773..... | 2,600.00 |
| Services of draughtsman | 25.50 |
| Drawing materials..... | 5.20 |
| Printing specifications | 13.74 |
| Bell and mountings..... | 48.72 |
| Freight on bell..... | .78 |
| Constructing belfry and hanging bell..... | 52.50 |
| Tin-work on belfry..... | 19.22 |
| Balance of appropriation | 234.34 |
| Amount appropriated | 3,000.00 |

TOWERS BUILDING, ON LOT ADJOINING WALLACH SCHOOL.

| | |
|----------------------------------|-------------|
| Amount of contract No. 776 | \$22,625.00 |
| Services of draughtsman | 38.00 |
| Printing specifications | 28.98 |
| Drawing materials | 5.20 |
| Surveying | 10.00 |
| Heating and dry closets | 2,117.00 |
| Brick-work around furnaces | 175.00 |
| Balance of appropriation | .82 |

Appropriation 25,000.00

MAGRUDER BUILDING, ON LOT ADJOINING SUMNER SCHOOL.

| | |
|--|-----------|
| Amount of contract No. 775 | 22,375.00 |
| Extra foundations: | |
| 112 yards concrete, at \$5 per yard | 616.00 |
| 209 yards paving and excavating, at 75 cents | 156.75 |
| 14,322 brick, at \$16 per 1,000 | 229.15 |
| Services of draughtsman | 38.00 |
| Heating and dry closets | 2,117.00 |
| Specifications | 28.98 |
| Drawing materials | 5.20 |
| Car tickets | 19.98 |
| Superintendence | 212.00 |
| Surveying | 2.50 |
| Brick-work around furnaces | 175.00 |

Amount appropriated 25,975.56

BRADLEY BUILDING.

| | |
|----------------------------------|-----------|
| Amount of contract No. 765 | 22,176.00 |
| Brick-work around furnaces | 175.00 |
| Heating and dry closets | 2,117.00 |
| Services of draughtsman | 38.00 |
| Printing specifications | 27.48 |
| Drawing materials | 5.20 |
| Surveying | 10.00 |
| Superintendence | 444.00 |
| Balance of appropriation | 7.32 |

Amount appropriated 25,000.00

PHELPS BUILDING.

| | |
|---|-----------|
| Amount of contract No. 781 | 22,200.00 |
| Cost of site | 10,466.53 |
| Heating and dry closets | 2,117.00 |
| Drawing materials | 4.20 |
| Printing specifications | 17.49 |
| Services of draughtsman | 6.00 |
| Brick-work around furnaces | 175.00 |
| Recording deed | 1.50 |
| Extending water-pipe, putting in waste, etc | 20.65 |
| Balance of appropriation | .18 |

35,008.55

By repayment, C. Thomas 8.55

Amount appropriated 35,000.00

GIDDINGS BUILDING.

| | |
|---|-----------|
| Amount of contract No. 777 | 22,487.00 |
| Cost of site | 7,188.39 |
| Recording deed | 1.50 |
| Extra foundations: | |
| 400 yards excavating, at 85 cents | 344.25 |
| 67,750 brick, at \$16 | 1,084.00 |
| Drawing materials | 5.20 |
| Services of draughtsman | 19.00 |
| Surveying | 7.50 |
| Heating and dry closets | 2,117.00 |

| | |
|---|------------------|
| Printing specifications | \$17.49 |
| Black boarding | 41.25 |
| Silicate slating | 39.51 |
| Laying pavements in yard | 43.50 |
| Brick-work around furnaces | 175.00 |
| Balance appropriation building and site | 1,429.41 |
| Total appropriation | 35,000.00 |

CARBERRY BUILDING.

| | |
|---|------------------|
| Amount of contract No. 791 | 22,300.00 |
| Drawing materials | 5.20 |
| Services of draughtsman | 19.00 |
| Printing specifications | 16.74 |
| Car tickets | 19.97 |
| Superintendence | 321.34 |
| Cost of site | 6,456.00 |
| Recording deed | 1.50 |
| Glass | .49 |
| Surveying | 5.00 |
| Heating and dry closets | 2,117.00 |
| Brick-work around furnaces | 175.00 |
| Balance appropriation building and site | 3,562.76 |
| Total appropriation | 35,000.00 |

BLAKE BUILDING.

| | |
|---|------------------|
| Amount of contract No. 792 | 22,400.00 |
| Cost of site | 9,985.00 |
| Recording deed | 1.50 |
| Drawing materials | 5.20 |
| Services of draughtsman | 19.00 |
| Printing specifications | 16.74 |
| Heating and dry closets | 2,117.00 |
| Superintendence | 121.33 |
| Pay-roll, laying sewer | 111.19 |
| Glass | .49 |
| Surveying | 7.50 |
| Brick-work around furnaces | 175.00 |
| Balance appropriation building and site | 40.05 |
| Total appropriation | 35,000.00 |

The appropriation for the erection of the tank tower and family building at the District reform school being in charge of the board of trustees of that institution, I had no connection with its disbursement.

The appropriation for repairs and improvements to school buildings and grounds was expended in the several divisions as follows, viz:

| | | | |
|-----------------------|------------|---|------------------|
| First division | \$2,778.36 | Seventh division | \$3,920.25 |
| Second division | 2,422.28 | Eighth division | 1,514.97 |
| Third division | 2,398.21 | High school | 263.10 |
| Fourth division | 1,363.82 | | |
| Fifth division | 2,120.40 | | |
| Sixth division | 3,898.82 | | |
| | | Total amount appropriation | 20,680.21 |

In submitting the estimates for repairs to public school buildings, on account of the increased number I have placed the amount at \$30,000.

The appropriation for the present year will enable me to get them in a fair state of repair, and also to inclose and improve the grounds about several of them, and that portion of the work should be continued until they are all properly inclosed and improved. I also append a statement of the number and value of the buildings, which will give some idea of the extent of that property, and the necessity for a sufficient sum to keep the buildings and grounds in repair.

List of public school buildings owned and occupied by the District of Columbia.

| Name. | Location. | Description of building. | Heated. | Erect-
ed. | No.
of
rooms | Value
of site. | Value of
building. | Total. |
|---------------------|---|---|------------|---------------|--------------------|-------------------|-----------------------|-----------|
| High School | O street between Sixth and Seventh | Brick, 198 by 75, three stories and basement .. | Steam .. | 1883 | 22 | \$75,000 | \$78,078 | \$153,078 |
| Abbott School | Corner New York avenue and Sixth street | Brick, 102 by 42, three stories and basement .. | Furnace .. | 1876 | 9 | 5,158 | 20,000 | 25,158 |
| Amidon | Corner Sixth and F streets southwest | Brick, 81 by 69, two stories and basement | do | 1882 | 8 | 5,949 | 18,232 | 24,181 |
| Anacostia | Ninth street and Virginia avenue southeast | Brick, 38 by 24, two stories | Stoves .. | 1840 | 2 | (*) | 2,000 | 2,000 |
| Anaostan | G street between Twenty-first and Twenty-second
northwest. | Brick, 92 by 88, three stories and basement .. | Steam .. | 1882 | 12 | 8,000 | 40,428 | 48,428 |
| Bowen | Corner Ninth and E streets southwest | Brick, 88 by 45, two stories | Stoves .. | 1867 | 8 | 1,672 | 5,000 | 6,672 |
| Banuker | Third street between K and L northwest | Brick, 81 by 69, two stories and basement | Furnace .. | 1882 | 8 | 3,500 | 20,000 | 23,500 |
| Berrett | Corner Fourteenth and Q streets northwest | Brick, 50 by 27, two stories | Stoves .. | 1857 | 2 | 4,750 | 2,500 | 7,250 |
| Brent | Corner Third and D streets southeast | Brick, 81 by 69, two stories and basement | Furnace .. | 1883 | 8 | 2,135 | 22,065 | 24,200 |
| Chamberlin | East street, Georgetown | Frame, 88 by 40 | Stoves .. | ..... | 12 | 169 | 1,000 | 1,169 |
| Cranch | Corner Twelfth and G streets southeast | Brick, 79 by 36, three stories and basement .. | Steam .. | 1872 | 6 | 622 | 16,000 | 16,622 |
| Curtis | Second, between High and Newmarket, Georgetown
Massachusetts avenue between Seventeenth and
Eighteenth streets northwest. | Brick, 97 by 79, three stories and basement .. | do | 1875 | 8 | 1,908 | 60,000 | 61,908 |
| Force ..... | ..... | Brick, 90 by 73, three stories and basement .. | do | 1879 | 12 | (*) | 36,215 | 36,215 |
| Franklin | Corner Thirteenth and K streets northwest | Brick, 143 by 79, three stories and basement .. | do | 1869 | 16 | 17,564 | 188,000 | 205,564 |
| Gales | Corner First and Massachusetts avenue northwest .. | Brick, 90 by 66, three stories and basement .. | do | 1881 | 12 | 10,000 | 40,116 | 50,116 |
| Garnett | Corner Tenth and M streets northwest | Brick, 90 by 73, three stories and basement .. | do | 1880 | 12 | 7,120 | 35,000 | 42,120 |
| Greenleaf | Four-and-a-half between M and N southwest | Brick, 72 by 32, two stories | Stoves .. | 1869 | 4 | 1,500 | 8,000 | 9,500 |
| Henry | P between Sixth and Seventh streets northwest .. | Brick, 89 by 73, three stories and basement .. | Steam .. | 1880 | 12 | 25,000 | 45,000 | 70,000 |
| Jefferson | Corner Sixth and D streets northwest | Brick, 172 by 88, three stories and basement .. | do | 1872 | 20 | 18,896 | 50,000 | 68,896 |
| John F. Cook | O between Fourth and Fifth streets northwest | Brick, 96 by 58, three stories | Furnace .. | 1868 | 11 | 2,160 | 18,000 | 20,160 |
| Lincoln | Corner Second and C streets southeast | Brick, 75 by 68, three stories and basement .. | Steam .. | 1871 | 10 | 3,460 | 20,000 | 23,460 |
| Lovejoy | Corner Twelfth and D streets northeast | Brick, 60 by 35, two stories and basement | Stoves .. | 1872 | 6 | (*) | 10,000 | 10,000 |
| McCormick | Third street between M and N southeast | Brick, 55 by 45, two stories and basement | Furnace .. | 1870 | 4 | 407 | 7,000 | 7,407 |
| Morse | R street between New Jersey avenue and Fifth
street. | Brick, 81 by 69, two stories and basement | do | 1883 | 8 | 4,578 | 23,670 | 28,248 |
| Peabody | Corner Fifth and C streets northeast | Brick, 90 by 90, three stories and basement .. | Steam .. | 1879 | 12 | 2,500 | 38,150 | 40,650 |
| Potomac | Twelfth street between Maryland avenue and E
street. | Brick, 72 by 32, two stories | Stoves .. | 1870 | 4 | 584 | 4,500 | 5,084 |
| Randall | Corner First and I streets southwest | Brick, 90 by 72, three stories | Furnace .. | 1876 | 10 | 727 | 40,000 | 40,727 |
| Seaton | I street between Second and Third northwest | Brick, 94 by 67, three stories and basement .. | Steam .. | 1871 | 11 | 11,325 | 35,000 | 46,325 |
| Stevens | Twenty-first street between K and L northwest .. | Brick, 88 by 48, three stories and basement .. | do | 1868 | 10 | 4,944 | 15,000 | 19,944 |
| Sumner | Corner Seventeenth and M streets | Brick, 94 by 69, three stories and basement .. | do | 1871 | 11 | 18,875 | 70,000 | 88,875 |
| Thompson | Twelfth street between K and L northwest | Brick, 91 by 28, three stories and basement .. | Furnace .. | 1877 | 6 | 2,906 | 8,000 | 10,906 |
| Twining | Third street between N and O northwest | Brick, 81 by 69, two stories and basement | do | 1883 | 10 | 4,681 | 24,070 | 28,751 |
| Wallach | Pennsylvania avenue between Seventh and Eighth
southeast. | Brick, 99 by 76, three stories and basement .. | Steam .. | 1864 | 12 | 14,517 | 40,000 | 54,517 |
| Webster | Corner Tenth and H streets northwest | Brick, 107 by 64, three stories and basement .. | do | 1881 | 12 | 15,000 | 41,053 | 56,053 |
| ..... | Corner Seventh and G streets southeast | Brick, 40 by 22, two stories | Stoves .. | 1840 | 2 | 433 | 1,200 | 1,633 |
| ..... | High and Market, Georgetown | Frame, 58 by 30, two stories and basement | do ..... | ..... | 2 | 584 | 3,000 | 3,584 |
| ..... | Montgomery near Bridge | Brick, 60 by 40, two stories | do ..... | ..... | 4 | 1,033 | 3,000 | 4,033 |
| ..... | Corner Prospect and Lingan | Brick, 75 by 29, two stories and basement | do ..... | ..... | 4 | 670 | 5,000 | 5,670 |
| Dennison | S between Thirteenth and Fourteenth streets | Brick, 92 by 89, three stories and basement | Steam .. | 1884 | 12 | 11,627 | 45,181 | 56,808 |

List of public school buildings owned and occupied by the District of Columbia—Continued.

| Name. | Location. | Description of building. | Heated. | Erected. | No. of rooms. | Value of site. | Value of building. | Total. |
|-------------------------|---|--|---------|----------|---------------|----------------|--------------------|----------|
| Blair | I street between Sixth and Seventh northeast. | Brick, 70 by 84, two stories and basement. | Furnace | 1884 | 8 | \$3,500 | \$22,071 | \$25,571 |
| Wormley | Prospect avenue between Thirty-third and Thirty-fourth streets. | do. | do | 1884 | 8 | 3,750 | 23,495 | 27,245 |
| Addison | P between Thirty-second and Thirty-third streets northwest. | Brick, 54 by 98, two stories and basement. | do | 1885 | 8 | (†) | 29,313 | 29,313 |
| Stevens Annex | Twenty-first street between K and L. | Brick, 28 by 38, three stories and basement. | Steam | 1885 | 6 | (‡) | 23,321 | 23,321 |
| Maury | B street between Twelfth and Thirteenth. | Brick, 70 by 84, two stories and basement. | Furnace | 1886 | 8 | 3,382 | 25,798 | 29,180 |
| Weightman | Twenty-third and M streets northwest. | Brick, 76 by 83, two stories and basement. | do | 1886 | 8 | 13,574 | 29,234 | 42,808 |
| Towers | Eighth and C streets southeast. | Brick, 56 by 104, two stories and basement. | do | 1887 | 8 | (§) | 24,999 | 24,999 |
| Magruder | M between Sixteenth and Seventeenth streets. | do | do | 1887 | 8 | (\|\|) | 25,973 | 25,973 |
| Carberry | Fifth street between D and E southeast. | Brick, 70 by 84, two stories and basement. | do | 1887 | 8 | 6,456 | 29,980 | 36,436 |
| Phelps | Vermont avenue between T and U streets. | do | do | 1887 | 8 | 10,466 | 24,521 | 34,987 |
| Giddings | G street between Third and Fourth. | do | do | 1887 | 8 | 7,183 | 24,952 | 32,140 |
| Blake | North Capitol between K and L streets. | do | do | 1887 | 8 | 9,985 | 24,973 | 34,958 |
| Bradley | Thirteen-and-a-half between C and D streets. | do | do | 1887 | 8 | 5,000 | 24,992 | 29,992 |
| COUNTY. | | | | | | | | |
| Conduit Road ..... | ..... | Frame, good condition. | Stoves | 1874 | 1 | (*) | 1,200 | 1,200 |
| Ridge Road ..... | ..... | do. | do | 1865 | 1 | 100 | 600 | 700 |
| Tennallytown ..... | ..... | Brick, new | do | 1882 | 4 | 500 | 4,000 | 4,500 |
| Grant Road ..... | ..... | Frame, good condition. | do | {1864} | 2 | 200 | 1,200 | 1,400 |
| Do ..... | ..... | ..... | ..... | {1880} | ..... | ..... | ..... | ..... |
| Brightwood ..... | ..... | Frame, poor condition. | do | 1864 | 2 | 500 | 1,200 | 1,700 |
| Do ..... | ..... | Frame, good condition. | do | 1865 | 1 | 150 | 600 | 750 |
| Mt. Pleasant ..... | ..... | Frame, fair condition. | do | 1865 | 3 | 3,000 | 9,300 | 12,300 |
| Columbia Road ..... | ..... | Frame, good condition. | do | 1871 | 2 | 850 | 5,150 | 6,000 |
| Near Howard University. | ..... | Brick, new | do | {1882} | 6 | 4,000 | 8,000 | 12,000 |
| Near Soldiers' Home | ..... | do | do | {1871} | 2 | 400 | 1,600 | 2,000 |
| Near Fort Slocum. | ..... | do | do | 1868 | 1 | 150 | 500 | 650 |
| Bunker Hill Road. | ..... | Brick, new | do | 1867 | 1 | 300 | 2,700 | 3,000 |
| Old Bladensburg Road. | ..... | Frame, fair condition. | do | 1883 | 1 | 100 | 500 | 600 |
| Bladensburg Pike | ..... | Brick, new | do | 1867 | 4 | 500 | 4,000 | 4,500 |
| Near Bennings Station. | ..... | do | do | 1881 | 2 | 400 | 4,600 | 5,000 |
| Anacostia Road. | ..... | Frame, fair condition. | do | 1883 | 1 | 200 | 600 | 800 |
| Bennings Road | ..... | Frame, good condition. | do | 1864 | 2 | 200 | 600 | 800 |
| Uniontown | ..... | Brick, new | do | 1881 | 6 | 1,500 | 6,837 | 8,337 |

The appropriation for the erection of iron fire-escapes, combined standpipes, ladders, etc., upon public-school buildings was expended as follows:

| | |
|--|----------|
| Amount of contract No. 899, \$3,688. | |
| Curtis Building, stand-pipe, platform, and ladder..... | \$325.00 |
| Analostan Building, stand-pipe, platform, and ladder..... | 270.00 |
| Dennison Building, stand-pipe, platform, and ladder..... | 270.00 |
| Force Building, stand-pipe, platform, and ladder..... | 260.00 |
| Garnett Building, stand-pipe, platform, and ladder..... | 260.00 |
| Thompson Building, one fire-escape and stand-pipe..... | 300.00 |
| Franklin Building, one fire-escape, two stand-pipes, platforms, and ladders. | 900.00 |
| Webster Building, two stand-pipes, platforms, and ladders..... | 270.00 |
| Henry Building, one stand-pipe, platform, and ladder..... | 293.00 |
| Peabody Building, one stand-pipe, platform, and ladder..... | 270.00 |
| Gales Building, one stand-pipe, platform, and ladder..... | 270.00 |
| | <hr/> |
| | 3,668.00 |

| | |
|---|--------|
| Amount of contract No. 896, \$1,044. | |
| Sumner Building, one fire-escape, and two stand-pipes, platforms, and ladders | 637.00 |
| Jefferson Building, one fire-escape, ladders, and stand-pipes..... | 407.00 |

| | |
|---|----------|
| Total amount of contracts Nos. 896 and 899..... | 4,732.00 |
| Superintendence of erection..... | 352.00 |
| Lithographing plans and details..... | 140.00 |
| Printing specifications..... | 11.33 |
| Painting..... | 208.00 |
| Abbott Building, one stand-pipe, platform, and ladder..... | 275.00 |
| Lowering windows down to platforms at Thompson Building..... | 30.00 |
| Carpenter's work, plastering, and painting after lowering windows at Thompson Building..... | 43.00 |
| Balance of appropriation..... | 208.67 |

| | |
|--------------------|----------|
| Appropriated | 6,000.00 |
|--------------------|----------|

Sanitary improvements in old school-buildings :

| | |
|----------------------|------------|
| Amount expended..... | \$9,998.61 |
| Balance..... | 1.39 |

| | |
|------------|-----------|
| Total..... | 10,000.00 |
|------------|-----------|

The above expenditure includes amount paid to Isaac D. Snead under contract No. 841 for the introduction and construction of the dry-closet system in the Peabody, Garnett, Abbott, and Henry school-buildings, \$3,879.30.

The expenditure for other branches of the work was made upon the recommendation of the inspector of plumbing and the approval of the Engineer Commissioner.

The appropriation was applied to the removal of the water-closets from the basements of the Peabody, Garnett, Henry, Abbott, Force, and Franklin. At the four first named the dry-closet system was constructed, and at the Force a brick yard closet was erected in the rear and the closets removed from the basement on the west side—those on the east side having been previously removed. At the Franklin the yard closets were improved by a reconstruction of the ventilation and sewerage.

The dry-closet system, as placed in the old and new buildings, has proved a great success. In the twelve-room buildings occupied during the year, with an average of 600 and the eight-room buildings with an average of 400 pupils, the evaporation so far consumed the excrement that at the closing of the school year when they were burned out nothing remained but a small quantity of ashes, and at no time has there been any cause of complaint.

The system is an economical arrangement, both in first cost and constant use, as they are not liable to become impaired to any great extent and repairs to them can at no time be extensive or expensive.

ENGINE-HOUSES.

The fire-engine houses are not in such a state of repair as they should be, nor can I during the present year put them in a thoroughly good condition. The wear upon them, in the stables and engine-rooms particularly, requires each year the greater part of the appropriation to renew and repair floors. To keep them in a fair state of repair and good working order the appropriation should not be less than \$2,500.

The appropriation for the fiscal year was expended as follows:

| | |
|---------------------------|--------------|
| Amount expended | \$1, 996. 45 |
| Balance | 3. 55 |
| | <hr/> |
| Amount appropriated | 2, 000. 00 |

REPAIRS TO MARKET HOUSES.

There being no appropriation for repairs to markets and it being absolutely necessary to protect them from the elements and keep them in a habitable condition, an expenditure of \$714.14 was made by your direction from the appropriation for contingent expenses for markets. The appropriation of \$1,000 for the present year will but partially make the repairs necessary, as I must expend the principal portion of it in renewing and improving the water-closets. The amount estimated for the next fiscal year, \$1,200, will be about sufficient to repair and paint the exteriors. They are large buildings and they now require not less than the amount stated, each year, to keep them comfortable and preserve them from damage by the elements.

STATION-HOUSES.

The appropriation for repairs to station-houses has been expended as follows, viz :

| | |
|---------------------------|--------------|
| Amount expended | \$1, 964. 36 |
| Balance | 35. 64 |
| | <hr/> |
| Amount appropriated | 2, 000. 00 |

The station-houses are in a fair state of repair, and to keep them in a comfortable and safe condition it will require, for the next year, the sum of \$2,500. There is great necessity for the enlargement of the Third precinct station-house and the erection of a proper and secure cell building, as the present one is neither safe, convenient, nor in a sanitary condition. The main building is too small to accommodate the force and is not adapted for the convenience of the men. At this station a stable is also necessary, and to place it the yard should be graded and filled to the level of the alley and the filling sustained by a heavy stone wall. I have furnished the chief of police with estimates for the above proposed work.

The Fifth station-house also needs enlarging and a new cell building, both being too small and inconvenient. This can not be done unless the side lot is purchased, as the present buildings cover the entire lot. The purchase of this lot is an absolute necessity, as without it there is no entrance to the premises except through the front door, and no enlargement of the house can be made.

The police court will require during the next year, to keep it in a fair state of repair, the sum of \$400. There is great complaint of the cells at this building as being dark and unfit for confining prisoners. For want of space I see no chance of improving their condition, as the building occupies all the land, and they, as now situated, are ventilated but not lighted, except by a borrowed light from the passage through the grated door. There is a small piece of land on the east side which, if it could be purchased or leased, would be sufficient upon which to construct the cells. I would advise, if it can be done, to secure it and place the cells above ground, where they can be properly lighted and ventilated.

There was no appropriation made for repairs to this building during the past year, but the expenditure of \$107.65 was made from the contingent fund of the police court, which was necessary to keep it habitable.

Estimates for the fiscal year ending June 30, 1890.

| | |
|---|--------------------|
| Repairs to school buildings..... | \$30,000 |
| Repairs to police court..... | 400 |
| Repairs to station-houses..... | 2,500 |
| Repairs to engine-houses..... | 2,500 |
| Repairs to market-houses..... | 1,200 |
| | <hr/> 36,600 <hr/> |
| Salary of inspector of buildings..... | \$3,000 |
| Salary of architect and permit clerk..... | 2,000 |
| Salary of two assistant inspectors of buildings..... | 2,400 |
| Salary of one clerk on general work..... | 900 |
| One messenger..... | 480 |
| One engineer in District of Columbia building..... | 900 |
| One janitor, care District of Columbia building..... | 700 |
| Two laborers, care District of Columbia building, \$480 each..... | 960 |
| Total..... | <hr/> 11,340 <hr/> |

In conclusion permit me, gentlemen, to acknowledge the uniform confidence and consideration this department has always received from you in all its transactions.

Very respectfully,

THOS. B. ENTWISLE,
Inspector of Buildings.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

M.

REPORT OF INSPECTOR OF GAS AND METERS.

OFFICE OF THE U. S. INSPECTOR OF GAS AND METERS,
Washington, D. C., September 4, 1888.

GENTLEMEN: I have the honor herewith to submit the annual report of this office, showing its operation for the fiscal year ending June 30, 1888.

At its commencement will be found condensed tables, giving the illuminating power and purity of the gas furnished by the gas companies during the year.

Full monthly statements will be found in Tables A and B. In the remaining tables, lettered C, D, E, and F, the monthly inspection of meters and the pressure of the gas are fully stated.

Very respectfully, your obedient servant,

S. CALVERT FORD,
Inspector of Gas and Meters.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

ILLUMINATING POWER AND PURITY.

The illuminating power and purity of the gas supplied by the Washington Gas-Light Company from June 24, 1887, to June 23, 1888, were as follows:

| | |
|--|-------|
| Average illuminating power during the year.....candles.. | 17.32 |
| Highest illuminating power during the year.....do..... | 19.68 |
| Lowest illuminating power during the year.....do..... | 15.54 |

On July 23 the maximum candle-power was determined.

On December 30 the minimum candle-power was determined.

| | |
|--|-------|
| Average quantity of ammonia in 100 cubic feet during the year.....grains.. | 2.01 |
| Highest quantity of ammonia in 100 cubic feet during the year.....do..... | 10.71 |
| Lowest quantity of ammonia in 100 cubic feet during the year.....do..... | .08 |

On August 3 the maximum quantity of ammonia was found.

On January 23 the minimum quantity of ammonia was found.

| | |
|--|-------|
| Average quantity of sulphur in 100 cubic feet during the year.....grains.. | 10.01 |
| Highest quantity of sulphur in 100 cubic feet during the year.....do..... | 20.13 |
| Lowest quantity of sulphur in 100 cubic feet during the year.....do..... | 5.48 |

On March 27 the maximum quantity of sulphur was found.

On April 9 the minimum quantity of sulphur was found.

DEFAULTS IN CANDLE-POWER AND PURITY.

On four occasions the illuminating power of the gas furnished by the Washington Gas-Light Company was found to be less than 16 candles.

On twelve occasions the quantity of ammonia found in each 100 cubic feet exceeded the 5 grains allowed.

On one occasion the quantity of sulphur found in each 100 cubic feet exceeded the 20 grains allowed.

PRESSURE OF THE GAS.

The pressure of the gas supplied by this company, as recorded in inspector's office, corner Tenth and D streets, "Post Building," during the hours that street lamps were lighted from July 1, 1887, to June 30, 1888, was as follows:

| | | |
|------------------------|----------|------|
| Average pressure | inches.. | 1.17 |
| Highest pressure..... | do.... | 1.76 |
| Lowest pressure | do.... | .77 |

On December 7 the maximum pressure was recorded.

On March 12 the minimum pressure was recorded.

The illuminating power and purity of the gas supplied by the Georgetown Gas-Light Company from June 24, 1887, to June 23, 1888, were as follows:

| | | |
|---|-----------|-------|
| Average illuminating power during the year..... | candles.. | 16.98 |
| Highest illuminating power during the year..... | do.... | 18.93 |
| Lowest illuminating power during the year..... | do.... | 15.25 |

On August 17 the maximum candle-power was determined.

On January 28 the minimum candle-power was determined.

| | | |
|--|----------|-------|
| Average quantity of ammonia in 100 cubic feet during the year..... | grains.. | 2.53 |
| Highest quantity of ammonia in 100 cubic feet during the year..... | do.... | 15.64 |
| Lowest quantity of ammonia in 100 cubic feet during the year..... | do.... | .17 |

On January 11 the maximum quantity of ammonia was found.

On December 9 the minimum quantity of ammonia was found.

| | | |
|---|----------|-------|
| Average quantity of sulphur in 100 cubic feet during the year | grains.. | 13.98 |
| Highest quantity of sulphur in 100 cubic feet during the year..... | do.... | 28.08 |
| Lowest quantity of sulphur in 100 cubic feet during the year..... | do.... | 6.16 |

On April 14 the maximum quantity of sulphur was found.

On August 29 the minimum quantity of sulphur was found.

DEFAULTS IN CANDLE POWER AND PURITY.

On five occasions the illuminating power of the gas furnished by the Georgetown Gas-Light Company was found to be less than 16 candles.

On ten occasions the quantity of ammonia found in each 100 cubic feet exceeded the 5 grains allowed.

On seven occasions the quantity of sulphur found in each 100 cubic feet exceeded the 20 grains allowed.

PRESSURE OF THE GAS.

The pressure of the gas supplied by this company, as recorded in inspector's office, on High street, Georgetown, during the hours that street lamps were lighted from July 1, 1887, to June 30, 1888, was as follows:

| | | |
|------------------------|----------|------|
| Average pressure | inches.. | 1.61 |
| Highest pressure..... | do.... | 3.11 |
| Lowest pressure..... | do.... | .77 |

On April 27 the maximum pressure was recorded.

On June 1 the minimum pressure was recorded.

INSPECTION OF METERS.

One thousand four hundred and eight meters were inspected and proved by this office during the fiscal year ending June 30, 1888.

With the exception of 1 meter inspected and proved for the Alexandria Gas-Light Company, and 1 for the Annapolis Gas-Light Company, the above number was inspected and proved for the Washington and George-

town Gas-Light Companies and for consumers of gas in Washington and Georgetown.

The results of inspection were as follows: 97 registered fast, average error 3.66 per cent.; 41 registered slow, average error 7.09 per cent.; 1,254 registered within the limits allowed, namely, 2 per cent. either way; and 14 did not register the gas flowing through them.

One hundred and forty-four of the above-mentioned meters were inspected and proved on complaint; 117 were complained of by consumers of gas—58 registered fast, average error 4.43 per cent.; 25 registered slow, average error 7.94 per cent.; 31 registered within the limits allowed, and 3 did not register the gas flowing through them. Twenty-seven were complained of by the gas companies—4 registered fast, average error 3.17 per cent.; 5 registered slow, average error 15.03 per cent.; 7 registered within the limits allowed, and 11 did not register.

The sum of \$704 was collected as fees for meter inspections during the year, and the same was paid to the collector of the District of Columbia to the credit of the United States and District of Columbia in equal parts.

The recommendations made in annual reports of this office for several preceding years that an assistant inspector of gas and meters be appointed, and that the act of Congress regulating gas-works in this District, approved June 23, 1874, be amended so as to provide for a more comprehensive inspection and supervision of meters, are again respectfully renewed.

A.—Report of the illuminating power and purity of the gas supplied by the Washington Gas-Light Company from June 24, 1887, to June 23, 1888.

| Months of the year. | Number of observations.* | Illuminating power in sperm candles. | | | Quantity of ammonia in 100 cubic feet. | | | Quantity of sulphur in 100 cubic feet. | | |
|----------------------------|--------------------------|--------------------------------------|----------|---------|--|---------------------------|--------------------------|--|---------------------------|--------------------------|
| | | Mean. | Highest. | Lowest. | Mean number of grains. | Highest number of grains. | Lowest number of grains. | Mean number of grains. | Highest number of grains. | Lowest number of grains. |
| July | 25 | 17.14 | 19.68 | 15.89 | 2.65 | 3.40 | 1.36 | 11.85 | 19.65 | 7.53 |
| August | 26 | 17.06 | 18.33 | 16.10 | 4.46 | 10.71 | 1.70 | 7.53 | 9.59 | 6.16 |
| September | 27 | 17.96 | 19.44 | 16.76 | 3.54 | 5.44 | 1.70 | 10.47 | 13.70 | 6.85 |
| October | 25 | 17.70 | 19.05 | 16.15 | 1.63 | 2.38 | .85 | 11.18 | 13.70 | 6.85 |
| November | 27 | 17.20 | 18.36 | 16.27 | 1.16 | 2.04 | .51 | 9.71 | 17.67 | 6.85 |
| December | 25 | 17.54 | 18.67 | 16.29 | 1.51 | 4.25 | .17 | 8.03 | 11.64 | 6.30 |
| January | 19 | 17.49 | 18.81 | 15.54 | 2.28 | 6.80 | .08 | 9.20 | 13.01 | 5.89 |
| February | 26 | 16.80 | 17.84 | 16.04 | 1.26 | 3.40 | .17 | 10.04 | 16.44 | 6.85 |
| March | 25 | 16.64 | 17.69 | 15.84 | 1.74 | 2.55 | .51 | 12.32 | 19.31 | 8.22 |
| April | 25 | 17.77 | 18.80 | 16.18 | 1.60 | 2.55 | .51 | 11.03 | 20.13 | 5.48 |
| May | 26 | 17.32 | 18.54 | 16.19 | 1.00 | 1.70 | .34 | 9.47 | 15.07 | 5.89 |
| June | 26 | 17.27 | 19.66 | 15.63 | 1.34 | 2.38 | .34 | 9.37 | 17.39 | 6.85 |
| Sum total for the year.... | 302 | 207.91 | ..... | ..... | 24.17 | ..... | ..... | 120.20 | ..... | ..... |

*Each observation consists of twenty readings on the Bunsen photometer, at intervals of one minute

AVERAGE FOR THE YEAR.

| | |
|--------------------------------------|-------|
| Illuminating power in sperm candles: | |
| Mean of 302 observations* | 17.32 |
| Highest (July 23, 1887) | 19.68 |
| Lowest (December 30, 1887) | 15.54 |

* Each observation consists of twenty readings on the Bunsen photometer, at intervals of one minute.

Quantity of ammonia in 100 cubic feet :

| | |
|---|-------|
| Mean number of grains..... | 2.01 |
| Highest number of grains (August 3, 1887)..... | 10.71 |
| Lowest number of grains (January 23, 1888)..... | .08 |

Quantity of sulphur in 100 cubic feet :

| | |
|--|-------|
| Mean number of grains..... | 10.01 |
| Highest number of grains (March 27, 1888)..... | 20.13 |
| Lowest number of grains (April 9, 1888)..... | 5.48 |

REMARKS.—On four occasions the illuminating power of the gas was less than 16 candles.

On twelve occasions the quantity of ammonia found exceeded the 5 grains allowed.

On one occasion the quantity of sulphur found exceeded the 20 grains allowed.

B.—Report of the illuminating power and purity of the gas supplied by the Georgetown Gas-Light Company from June 24, 1887, to June 23, 1888.

| Months of the year. | Number of observations.* | Illuminating power in sperm candles. | | | Quantity of ammonia in 100 cubic feet. | | | Quantity of sulphur in 100 cubic feet. | | |
|----------------------------|--------------------------|--------------------------------------|----------|---------|--|---------------------------|--------------------------|--|---------------------------|--------------------------|
| | | Mean. | Highest. | Lowest. | Mean number of grains. | Highest number of grains. | Lowest number of grains. | Mean number of grains. | Highest number of grains. | Lowest number of grains. |
| July | 25 | 16.90 | 18.10 | 16.24 | 3.43 | 4.08 | 2.89 | 13.11 | 16.30 | 9.86 |
| August | 26 | 17.16 | 18.93 | 16.01 | 2.60 | 3.26 | 1.29 | 12.78 | 16.96 | 7.26 |
| September | 27 | 16.82 | 18.06 | 16.00 | 2.66 | 3.06 | 1.70 | 12.26 | 17.39 | 6.16 |
| October | 25 | 16.76 | 18.11 | 16.02 | 1.52 | 1.87 | 1.30 | 12.98 | 17.87 | 10.13 |
| November | 27 | 16.78 | 18.05 | 15.57 | .60 | 1.22 | .28 | 14.44 | 19.45 | 10.82 |
| December | 25 | 16.96 | 17.96 | 15.68 | .57 | 2.22 | .17 | 12.21 | 16.13 | 8.76 |
| January | 19 | 17.25 | 18.73 | 16.08 | 7.52 | 15.64 | 2.31 | 13.88 | 21.23 | 8.35 |
| February | 26 | 17.06 | 18.86 | 15.25 | .75 | 1.95 | .25 | 14.50 | 17.53 | 11.30 |
| March | 25 | 17.29 | 18.28 | 16.33 | 1.05 | 1.53 | .47 | 15.73 | 18.64 | 13.05 |
| April | 25 | 17.17 | 18.28 | 16.08 | 2.87 | 5.44 | 1.08 | 18.25 | 28.08 | 12.33 |
| May | 26 | 17.18 | 18.52 | 16.15 | 3.34 | 4.79 | 2.49 | 16.54 | 24.18 | 9.45 |
| June | 26 | 16.44 | 17.30 | 16.03 | 3.49 | 5.30 | 2.26 | 11.12 | 13.85 | 7.16 |
| Sum total for the year ... | 302 | 203.77 | | | 30.40 | | | 167.80 | | |

* Each observation consists of twenty readings on the Bunsen photometer, at intervals of one minute.

AVERAGE FOR THE YEAR.

Illuminating power in sperm candles:

| | |
|--------------------------------|-------|
| Mean of 302 observations*..... | 16.98 |
| Highest (August 17, 1887)..... | 18.93 |
| Lowest (January 28, 1888)..... | 15.25 |

Quantity of ammonia in 100 cubic feet:

| | |
|--|-------|
| Mean number of grains..... | 2.53 |
| Highest number of grains (January 11, 1888)..... | 15.64 |
| Lowest number of grains (December 9, 1887)..... | .17 |

Quantity of sulphur in 100 cubic feet:

| | |
|---|-------|
| Mean number of grains..... | 13.98 |
| Highest number of grains (April 14, 1888)..... | 28.08 |
| Lowest number of grains (August 29 and 31, 1887)..... | 6.16 |

REMARKS.—On five occasions the illuminating power of the gas was less than 16 candles.

On ten occasions the quantity of ammonia found exceeded the 5 grains allowed.

On seven occasions the quantity of sulphur found exceeded the 20 grains allowed.

* Each observation consists of twenty readings on the Bunsen photometer, at intervals of one minute.

C.—Report of meters inspected and proved for the Washington Gas-Light Company and for consumers of gas in Washington, from June 30, 1887, to June 30, 1888.

| Months of the year. | Whole number of meters tested. | New meters for company. | | | | | | Repaired meters for company. | | | |
|---------------------|--------------------------------|-------------------------|--------------|-----------------|--------------|-----------------|-----------------|------------------------------|--------------|-----------------|-----------------|
| | | Total. | Number fast. | Per cent. fast. | Number slow. | Per cent. slow. | Number correct. | Total. | Number slow. | Per cent. slow. | Number correct. |
| July | 132 | 127 | 3 | 2.88 | 1 | 5.83 | 123 | 3 | | | 3 |
| August | 129 | 116 | 3 | 3.36 | 1 | 3.08 | 112 | 9 | | | 9 |
| September | 99 | 94 | 1 | 3.00 | 2 | 3.23 | 91 | 3 | | | 3 |
| October | 124 | 119 | 1 | 2.50 | 1 | 3.27 | 117 | 3 | 1 | 3.83 | 2 |
| November | 88 | 81 | | | 2 | 2.75 | 79 | 3 | | | 3 |
| December | 76 | 61 | | | | | 61 | 3 | | | 3 |
| January | 71 | 56 | 9 | 3.34 | | | 47 | 10 | | | 10 |
| February | 81 | 27 | 1 | 2.54 | | | 26 | 20 | | | 20 |
| March | 103 | 69 | 7 | 3.19 | | | 62 | 23 | | | 23 |
| April | 105 | 94 | 3 | 3.19 | 1 | 3.33 | 90 | 6 | | | 6 |
| May | 113 | 104 | 1 | 2.66 | | | 103 | 5 | | | 5 |
| June | 94 | 92 | | | | | 92 | 1 | | | 1 |
| Total | 1,215 | 1,040 | 29 | †2.96 | 8 | †3.65 | 1,003 | 89 | 1 | †3.83 | 88 |

| Months of the year. | Consumers' meters on complaint of consumers. | | | | | Consumers' meters on complaint of company, | | | | Consumers' meters on complaint of company that did not register. | |
|---------------------|--|--------------|-----------------|--------------|-----------------|--|--------|--------------|-----------------|--|----------------|
| | Total. | Number fast. | Per cent. fast. | Number slow. | Per cent. slow. | Number correct. | Total. | Number fast. | Per cent. fast. | | Number correct |
| July | 2 | 2 | 4.00 | | | | | | | | |
| August | 4 | 2 | 4.33 | | | *1 | | | | | |
| September | 2 | | | 1 | 3.25 | 1 | | | | | |
| October | 2 | | | 1 | 2.94 | (*) | | | | | |
| November | 3 | | | 2 | 4.01 | 1 | 1 | | | | 1 |
| December | 10 | 4 | 3.84 | 3 | 5.64 | 3 | 2 | 1 | 3.33 | 1 | |
| January | 4 | 2 | 3.68 | 1 | 27.66 | 1 | 1 | | | | 1 |
| February | 34 | 18 | 4.57 | 6 | 4.89 | *9 | | | | | |
| March | 11 | 8 | 4.02 | 1 | 8.41 | 2 | | | | | |
| April | 5 | 4 | 4.55 | 1 | 2.72 | | | | | | |
| May | 4 | 3 | 8.16 | | | 1 | | | | | |
| June | 1 | | | 1 | 3.58 | | | | | | |
| Total | 82 | 43 | †4.64 | 17 | †7.01 | (†) | 4 | 1 | †3.33 | 1 | 2 |

* 1 don't register.

† Average per cent.

‡ 19 correct; 3 don't register.

REMARKS.—During the fiscal year ending June 30, 1888, this office inspected and proved for the Washington Gas-Light Company and for consumers of gas in Washington, 1,215 meters; of this number 73 registered fast, average error 3.64 per cent.; 26 registered slow, average error 4.83 per cent.; 1,111 registered within the limits allowed, namely, 2 per cent. either way; and 5 meters did not register the gas flowing through them.

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D.—Report of meters inspected and proved for the Georgetown Gas-Light Company and for consumers of gas in Georgetown, from June 30, 1887, to June 30, 1888.

| Months of the year. | Whole number of meters tested. | New meters for company. | | | | | Repaired meters for company. | | | | | | |
|---------------------|--------------------------------|-------------------------|--------------|-----------------|--------------|-----------------|------------------------------|--------|--------------|-----------------|--------------|-----------------|-----------------|
| | | Total. | Number fast. | Per cent. fast. | Number slow. | Per cent. slow. | Number correct. | Total. | Number fast. | Per cent. fast. | Number slow. | Per cent. slow. | Number correct. |
| July..... | | | | | | | | | | | | | |
| August..... | 6 | 6 | 1 | 3 | 1 | 8.87 | 4 | | | | | | |
| September..... | 20 | 20 | | | | | 20 | | | | | | |
| October..... | 23 | 16 | | | | | 16 | 2 | | | | | 2 |
| November..... | 46 | 36 | | | | | 36 | 1 | | | | | 1 |
| December..... | 19 | | | | | | 11 | | | | | | 11 |
| January..... | 38 | 7 | | | | | 7 | 21 | 3 | 3.37 | 1 | 4.66 | 17 |
| February..... | 17 | | | | | | 12 | 2 | 4.29 | | | | 10 |
| March..... | 14 | | | | | | | | | | | | |
| April..... | | | | | | | | | | | | | |
| May..... | 8 | 1 | | | | | 1 | | | | | | |
| June..... | | | | | | | | | | | | | |
| Total..... | 191 | 86 | 1 | *3 | 1 | *8.87 | 84 | 47 | 5 | *3.83 | 1 | *4.66 | 41 |

| Months of
the year. | Consumers' meters on complaint of
consumers. | | | | | Consumers' meters on complaint of
company. | | | | | Consumers' meters on
complaint of company
that did not register. | | |
|------------------------|---|--------------|-----------------|--------------|-----------------|---|--------|--------------|-----------------|--------------|--|-----------------|-----------------|
| | Total. | Number fast. | Per cent. fast. | Number slow. | Per cent. slow. | Number correct. | Total. | Number fast. | Per cent. fast. | Number slow. | | Per cent. slow. | Number correct. |
| July | | | | | | | | | | | | | |
| August | | | | | | | | | | | | | |
| September | | | | | | | | | | | | | |
| October | 1 | | | 1 | 19.66 | | 4 | | | | | 2 | 2 |
| November | 8 | 2 | 3.70 | 3 | 6.63 | 3 | 1 | | | 1 | 27.95 | | |
| December | 5 | 1 | 3.41 | 3 | 5.44 | 1 | 3 | | | 2 | 14.87 | | 1 |
| January | 9 | 6 | 5.50 | | | 3 | 1 | | | | | 1 | |
| February | 3 | 1 | 4.25 | | | 2 | 2 | | | | | 1 | 1 |
| March | 3 | 2 | 4.08 | 1 | 3.76 | | 11 | 3 | 3.02 | 1 | 7.83 | 2 | 5 |
| April | | | | | | | | | | | | | |
| May | 6 | 3 | 4.76 | | | 3 | 1 | | | 1 | 9.50 | | |
| June | | | | | | | | | | | | | |
| Total.. | 35 | 15 | *4.28 | 8 | *8.87 | 12 | 23 | 3 | *3.02 | 5 | *15.03 | 6 | 9 |

*Average per cent.

REMARKS.—During the fiscal year ending June 30, 1888, this office inspected and proved for the Georgetown Gas-Light Company and for consumers of gas in Georgetown 191 meters; of this number 24 registered fast, average error 3.68 per cent.; 15 registered slow, average error 9.35 per cent.; 143 registered within the limits allowed, namely, 2 per cent. either way; and 9 meters did not register the gas flowing through them.

E.—Report showing the pressure of the gas supplied by the Washington Gas-Light Company, as registered in this office, Post Building, corner of Tenth and D streets, from June 30, 1887, to June 30, 1888.

| Month. | Mean
pressure. | Maximum
pressure. | Minimum
pressure. |
|-----------------|-------------------|----------------------|----------------------|
| | <i>Inches.</i> | <i>Inches.</i> | <i>Inch.</i> |
| July | 1.24 | 1.59 | .79 |
| August | 1.25 | 1.64 | .81 |
| September | 1.23 | 1.63 | .88 |
| October | 1.22 | 1.64 | .88 |
| November | 1.16 | 1.74 | .85 |
| December | 1.18 | 1.76 | .92 |
| January | 1.16 | 1.55 | .82 |
| February | 1.19 | 1.67 | .95 |
| March | 1.15 | 1.53 | .77 |
| April | 1.13 | 1.70 | .85 |
| May | 1.10 | 1.45 | .86 |
| June | 1.11 | 1.43 | .85 |
| Total | 14.12 | ..... | ..... |

Average: Mean pressure, 1.17 inches; maximum pressure, December 7, 1887, 1.76 inches; minimum pressure, March 12, 1888, .77 inch.

REMARKS.—The above record represents the pressure of the gas during the hours that street lamps were lighted.

F.—Report showing the pressure of the gas supplied by the Georgetown Gas-Light Company as registered in this office, No. 1438 High street, from June 30, 1887, to June 30, 1888.

| Month. | Mean
pressure. | Maximum
pressure. | Minimum
pressure. |
|-----------------|-------------------|----------------------|----------------------|
| | <i>Inches.</i> | <i>Inches.</i> | <i>Inches.</i> |
| July | 1.71 | 2.04 | 1.17 |
| August | 1.68 | 2.25 | 1.21 |
| September | 1.71 | 2.12 | 1.45 |
| October | 1.69 | 2.76 | 1.29 |
| November | 1.67 | 2.17 | 1.22 |
| December | 1.60 | 2.18 | 1.16 |
| January | 1.49 | 2.72 | 1.10 |
| February | 1.45 | 2.52 | .99 |
| March | 1.47 | 2.04 | 1.04 |
| April | 1.49 | 3.11 | 1.02 |
| May | 1.46 | 2.11 | .97 |
| June | 1.99 | 2.95 | .77 |
| Total | 19.41 | ..... | ..... |

Average: Mean pressure, 1.61 inches; maximum pressure, April 27, 1888, 3.11 inches; minimum pressure, June 1, 1887, .77 inch.

REMARKS.—The above record represents the pressure of the gas during the hours that street lamps were lighted.

N.

REPORT OF BOARD FOR EXAMINATION OF STEAM ENGINEERS.

WASHINGTON, D. C., *August 20, 1888.*

SIRS: The examining board of steam engineers beg leave to submit the following report for the year beginning July 1, 1887, and ending June 30, 1888.

The following table will show the progress made during each month:

| Month. | Meetings of board. | Applications received. | Applicants examined. | Not competent. | On account of United States license. |
|----------------|--------------------|------------------------|----------------------|----------------|--------------------------------------|
| 1887. | | | | | |
| July..... | 13 | ..... | 15 | ..... | ..... |
| August..... | 10 | ..... | 52 | ..... | ..... |
| September..... | 10 | ..... | 27 | ..... | ..... |
| October..... | 8 | ..... | 16 | ..... | ..... |
| November..... | 4 | ..... | 8 | ..... | ..... |
| December..... | 4 | ..... | 17 | ..... | ..... |
| 1888. | | | | | |
| January..... | 4 | ..... | 3 | ..... | ..... |
| February..... | 4 | ..... | 1 | ..... | ..... |
| March..... | 5 | ..... | 17 | ..... | ..... |
| April..... | 4 | ..... | 9 | ..... | ..... |
| May..... | 4 | ..... | 5 | ..... | ..... |
| June..... | 15 | ..... | 13 | ..... | ..... |
| Total..... | 85 | 274 | 183 | 58 | 33 |

RECAPITULATION.

| | |
|----------------------------|-----|
| Applications received..... | 274 |
| Applicants examined..... | 183 |
| Not competent..... | 58 |
| United States license..... | 33 |
| | 91 |
| | 274 |

In addition to the number of meetings held by the board in the evening, its members have also visited 207 places of business where steam is used, and wherever defects have been found requests for repairing the same have been asked.

We would also beg leave to call the attention of your honorable body to the fact that the board of examining steam engineers have now served for the space of sixteen months without remuneration, and would most respectfully suggest that in some manner arrangements could be made by which the members of the board could be compensated for their services.

Respectfully,

JOHN H. WILKERSON,
A. A. DULY,
JOHN F. REILLY,
Board of Examiners.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

O.

REPORT OF INSPECTOR OF STEAM-BOILERS.

GENTLEMEN: I have the honor to make the following report of the number of steam-boilers inspected by me during the year from June 30, 1887, to June 30, 1888.

| | |
|---|-----|
| Number of boilers inspected..... | 361 |
| Number of boilers condemned for repairs | 9 |
| Number of boilers condemned for new ones..... | 7 |
| Number of new boilers erected | 43 |
| Number of explosions | 2 |

INSPECTIONS.

July 4.—Boiler No. 1. Vertical tubular boiler in carriage factory, Pennsylvania avenue between Third and Four-and-a-half streets northwest, owned by John McDermott & Bros. Subject to a hydrostatic pressure of 100 pounds. Working pressure allowed, 60 pounds to the square inch. Expires July 4, 1888.

July 5.—Boiler No. 2. Locomotive form boiler in Potomac Box Factory, corner Fifth and K streets northwest, owned by R. A. Daniell. Subjected to a hydrostatic pressure of 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires July 5, 1888.

July 9.—No. 3. Vertical tubular boiler in printing office Eleventh street between E and F streets northwest, owned by William H. Moore. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires July 9, 1888.

July 11.—Nos. 4 and 5. Horizontal tubular boilers in Star office, corner Pennsylvania avenue and Eleventh street northwest, owned by the Evening Star Publishing Company. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds each to square inch. Expires July 11, 1888.

July 12.—No. 6. Vertical tubular boiler in bottling establishment West Washington, owned by Samuel C. Palmer. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires July 12, 1888.

July 13.—No. 7. Vertical tubular boiler in slaughter house on Seventh street road, owned by Widmayer Bros. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires July 13, 1888.

July 14.—No. 8. Vertical tubular boiler in the Arlington Bottling Establishment, corner Twenty-seventh and K streets northwest. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires July 14, 1888.

July 14.—Nos. 9 and 10. Horizontal tubular boilers in building southwest corner Thirteenth street and Pennsylvania avenue northwest, owned by Richmond and Danville Railroad Company. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch each. Expires July 14, 1888.

July 15.—No. 11. Vertical tubular boiler in building southwest corner Thirteenth street and Pennsylvania avenue northwest, owned by Richmond and Danville Railroad Company. Hydrostatic pressure, 75 pounds. Working pressure allowed, 50 pounds to square inch. Expires July 15, 1888.

July 16.—No. 12. Vertical tubular boiler in French Steam Laundry, 810 Ninth street northwest, owned by L. and Madame Daubrenet. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires July 16, 1888.

July 18.—No. 13. Horizontal tubular boiler in printing office Eleventh street near Pennsylvania avenue northwest, owned by Judd & Detweiler. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires July 18, 1888.

July 18.—No. 14. Horizontal tubular boiler in car stables West Washington, owned by Washington and Georgetown Railroad Company. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires July 18, 1888.

July 21.—No. 15. Vertical tubular boiler in wood and coal yard owned by William

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Muirhead. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires July 21, 1888.

July 22.—Boiler No. 16. New vertical tubular boiler in slaughter-house on Bladensburg road, owned by Santus Auth. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires July 22, 1888.

July 25.—No. 17. Horizontal tubular boiler in planing-mill owned by Wheatley Bros. Hydrostatic pressure, 135 pounds. Working pressure allowed, 85 pounds to square inch. Expires July 25, 1888.

July 26.—No. 18. Vertical Baxter boiler in ice-cream depot, 1447 New York avenue northwest, owned by J. Fussell. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires July 26, 1888.

July 27.—No. 19. Locomotive form boiler in stone-crushing works Water street, West Washington, owned by H. P. Gilbert. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Condemned for repairs; repaired and passed. Condemned for a new boiler. Expires November 27, 1887, four months after date.

July 27.—No. 20. New locomotive form boiler in yard Twenty-eighth and K streets northwest, owned by A. L. Barber & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires July 27, 1888.

July 28.—No. 21. Vertical tubular boiler in saw-mill, West Washington, owned by John S. Simms. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires July 28, 1888.

July 29.—No. 22. Locomotive form boiler in wood and coal-yard, Sixth street and Virginia avenue southeast, J. E. Rose agent. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires July 29, 1888.

August 1.—No. 23. Horizontal tubular boiler in brick-yard owned by Potomac Terra Cotta Company. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires August 1, 1888.

August 1.—No. 24. Locomotive form boiler in brick-yard owned by Potomac Terra Cotta Company. Hydrostatic pressure, 105 pounds. Working pressure allowed, 50 pounds to square inch. Expires August 1, 1888.

August 5.—No. 25. Locomotive form boiler used for hoisting purposes at church corner N street and Connecticut avenue northwest, John Edwards owner. Hydrostatic pressure, 150 pounds. Working pressure allowed, 90 pounds to square inch. Expires August 5, 1888.

August 6.—No. 26. Vertical tubular boiler in brick-yard owned by John Webster. Hydrostatic pressure, 75 pounds. Working pressure allowed, 40 pounds to square inch. Expires August 6, 1888.

August 6.—No. 27. Vertical tubular boiler in bottling establishment Second and Virginia avenue southwest, owned by Annheuser-Busch Brewing Association. Hydrostatic pressure, 115 pounds. Working pressure allowed, 50 pounds to square inch. Expires August 6, 1888.

August 8.—Nos. 28 and 29. Horizontal flue boilers in planing-mill foot of Ninth street southwest, owned by Wansatt & Uhler. Hydrostatic pressure, 115 pounds. Working pressure allowed, 60 pounds each to square inch. Six months after date condemned for a new boiler. Expires February 8, 1888.

August 10.—No. 30. Vertical tubular boiler in brick-yard owned by A. Richards & Co. Hydrostatic pressure, 110 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 10, 1888.

August 10.—Nos. 31, 32, and 33. Cylinder boilers in brick-yard owned by A. Richards & Co., examined and tested by hammer test. Working pressure allowed, 50 pounds each to square inch. Expires August 10, 1888.

August 11.—No. 34. Vertical tubular boiler at wharf foot of South Capitol street, owned by F. M. Draney. Hydrostatic pressure, 75 pounds. Working pressure allowed, 50 pounds to square inch. Expires August 11, 1888.

August 11.—No. 35. Vertical tubular boiler in glue factory, foot of South Capitol street, owned by P. Mann. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires August 11, 1888.

August 12.—No. 36. Locomotive form boiler in brick-yard, South Capitol street, owned by T. Martin. Hydrostatic pressure, 95 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 12, 1888.

August 12.—No. 37. Vertical tubular boiler in 720 Seventeenth street northwest, owned by L. D. Geneste & Co. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 12, 1888.

August 15.—No. 38. Horizontal tubular boiler in Potomac Terra Cotta Works, owned by Potomac Terra Cotta Company. Hydrostatic pressure, 165 pounds. Working pressure allowed, 110 pounds to square inch. Expires August 15, 1888.

August 16.—No. 39. Horizontal tubular boiler in brick-yard, owned by Ford & Winsor. Hydrostatic pressure, 90 pounds. Working pressure allowed, 50 pounds to square inch. Expires August 16, 1888.

August 16.—No. 40. Horizontal tubular boiler in brick-yard, owned by Ford & Bro. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Condemned for a new boiler three months after date. Expires November 16, 1888.

August 16.—No. 41. Horizontal tubular boiler in terra-cotta works, owned by Potomac Terra Cotta Company. Hydrostatic pressure, 150 pounds. Working pressure allowed, 90 pounds to square inch. Expires August 16, 1888.

August 19.—Nos. 42 and 43. Horizontal tubular boilers in Ebbitt House, owned by C. C. Willard. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds each to square inch. Expires August 19, 1888.

August 19.—No. 44. New horizontal tubular boiler, built by Petitt & Dripps for A. Lamond, to be used in Lamond's Terra Cotta Works. Hydrostatic pressure, 185 pounds. Working pressure allowed, 110 pounds; if necessary, 120 pounds to square inch. Expires August 19, 1888.

August 19.—No. 45. Vertical tubular boiler in photolithographic establishment, 461 C street northwest, owned by Bell Bros. Hydrostatic pressure, 140 pounds. Working pressure allowed, 90 pounds to square inch. Expires August 19, 1888.

August 22.—No. 46. Horizontal tubular boiler in planing-mill, corner North Capitol and D streets northwest, owned by Sebree & Barditt. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires August 22, 1888.

August 22.—No. 47. Horizontal tubular boiler in Willard's Hotel, O. G. Staples, proprietor. Hydrostatic pressure, 95 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 22, 1888.

August 22.—No. 48. Horizontal tubular boiler in Riggs House, C. W. Spofford, proprietor. Hydrostatic pressure, 110 pounds. Working pressure allowed, 70 pounds to square inch. Expires August 22, 1888.

August 24.—Nos. 49 and 50. Horizontal tubular boilers in Saks building, Seventh and Market space, owned by Saks & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds each to square inch. Expires August 24, 1888.

August 26.—No. 51. Horizontal tubular boiler in Hooe building, owned by C. C. Willard. Hydrostatic pressure, 110 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 26, 1888.

August 29.—No. 52. Vertical tubular boiler in Hermann's bottling establishment, Tenth and I streets southeast, owned by Fred Hermann. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 29, 1888.

August 29.—No. 53. Horizontal tubular boiler in bottling establishment, Sixth street and Virginia avenue southwest, owned by Samuel C. Palmer. Hydrostatic pressure, 125 pounds. Working pressure allowed, 75 pounds to square inch. Expires August 29, 1888.

August 30.—No. 54. Baxter boiler, in bottling establishment, 1206 D street northwest, owned by F. H. Finley. Hydrostatic pressure, 90 pounds. Working pressure allowed 60 pounds to square inch. Expires August 30, 1888.

August 30.—No. 55. Horizontal tubular boiler in 1420 New York avenue northwest, owned by D. S. Evans, jr. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 30, 1888.

August 30.—No. 56. Vertical tubular boiler at Eighth street wharf, owned by Rich & Co. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 30, 1888.

August 31.—No. 57. Vertical tubular boiler in Kellogg building, owned by H. A. Willard. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 31, 1888.

August 31.—No. 58. New vertical tubular boiler used for hoisting purposes, N street, between Twelfth and Thirteenth streets southeast, owned by W. H. Mohler, contractor. Hydrostatic pressure, 150 pounds. Working pressure allowed, 100 pounds to square inch. Expires August 31, 1888.

August 31.—No. 59. Vertical tubular boiler in hair factory, Anacostia, D. C., owned by H. A. Linger. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires August 31, 1888.

August 31.—No. 60. Vertical tubular boiler in Acme Steam Laundry, owned by P. D. Welcker. Hydrostatic pressure, 125 pounds. Working pressure allowed, 70 pounds to square inch. Expires August 31, 1888.

September 1.—No. 61. Horizontal tubular boiler in printing office, corner Thirteenth street and Pennsylvania avenue northwest, owned by Gibson Bros. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 1, 1888.

September 1.—No. 62. Vertical tubular boiler in printing office, Eighth street, between E and F streets northwest, owned by Bryon S. Adams. Hydrostatic pressure,

110 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 1, 1888.

September 1.—No. 63. Vertical tubular boiler at Twelfth street wharf southwest, owned by Johnson Brothers. Hydrostatic pressure, 160 pounds. Working pressure allowed, 100 pounds to square inch. Expires September 1, 1888.

September 1.—Nos. 64 and 65. Horizontal tubular boilers in building northwest corner of Ninth street and Pennsylvania avenue northwest, owned by Gunton estate. Hydrostatic pressure 120 pounds. Working pressure allowed, 80 pounds each to square inch. Expires September 1, 1888.

September 2.—No. 66. Vertical tubular boiler in 1206 Pennsylvania avenue northwest, owned by Smith Brothers & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 2, 1888.

September 2.—No. 67. Vertical tubular boiler in Columbia File Works, C street northwest, owned by Henry Rosendale. Hydrostatic pressure, 80 pounds. Working pressure allowed, 40 pounds to square inch. Expires September 2, 1888.

September 2.—No. 68. Vertical tubular boiler in Grant's row, East Capitol street, B. H. Warner, receiver, used for hoisting purposes. Hydrostatic pressure, 110 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 2, 1888.

September 2.—No. 69. Vertical tubular boiler in Dexter Steam Laundry, Sixth and C streets northwest, owned by H. M. Dexter & Co. Hydrostatic pressure, 110 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 2, 1888.

September 2.—No. 70. Vertical tubular boiler in Dexter Steam Laundry, owned by H. M. Dexter. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires September 2, 1888.

September 3.—No. 71. New locomotive form boiler in The Arno, Sixteenth street, between K and L streets northwest, owned by William E. Prail. Hydrostatic pressure, 125 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 3, 1888.

September 3.—No. 72. Horizontal tubular boiler in brass-works, owned by Robert Leitch & Sons. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 3, 1888.

September 6.—No. 73. Horizontal tubular boiler in Second National Bank building, Seventh street northwest. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires September 6, 1888.

September 6.—No. 74. Vertical tubular boiler in bakery 1407 Thirty-second street, West Washington, owned by Connecticut Pie Company. Hydrostatic pressure, 110 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 6, 1888.

September 7.—No. 75. Baxter boiler in cider manufactory, Seventh street northwest, owned by C. V. Fuller. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 7, 1888.

September 7.—Nos. 76 and 77. Horizontal tubular boilers in the Portland, Fourteenth street and Vermont avenue northwest. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds each to square inch. Expires September 7, 1888.

September 9.—No. 78. New horizontal tubular boiler in Carlisle building, corner of Eleventh and F streets northwest, Woodward & Lothrop, proprietors. Hydrostatic pressure, 140 pounds. Working pressure allowed, 60 pounds; if necessary, 70 pounds to square inch. Expires September 9, 1888.

September 10.—No. 79. Vertical tubular boiler in slaughter-house, owned by F. P. Seifert. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires September 10, 1888.

September 10.—No. 80. Horizontal tubular boiler in The Portland. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 10, 1888.

September 10.—No. 81. Horizontal tubular boiler in Hooe building, owned by C. C. Willard. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 10, 1888.

September 12.—No. 82. New vertical tubular boiler in Harvey's, corner Eleventh street and Pennsylvania avenue northwest, owned by T. H. Harvey. Hydrostatic pressure, 150 pounds. Working pressure allowed, 90 pounds to square inch. Expires September 12, 1888.

September 13.—No. 83. Vertical tubular boiler in machine-shop, Twelfth and R streets northwest, owned by Shepherd & Hurley. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires September 13, 1888.

September 14.—No. 84. Locomotive form boiler in city post-office. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires September 14, 1888.

September 14.—No. 85. Horizontal tubular boiler in city post-office. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires September 14, 1888.

September 15.—No. 86. Baxter boiler in photolithographing establishment, owned by Norris Peters. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 15, 1888.

September 15.—No. 87. Vertical tubular boiler in wood and coal yard, corner Delaware avenue and D streets northeast, owned by Elia Chelini. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires September 15, 1888.

September 15.—No. 88. Vertical tubular boiler in Exchange restaurant, 604 Pennsylvania avenue northwest, owned by P. Moore. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 15, 1888.

September 15.—No. 89. Vertical tubular boiler in cider and vinegar factory, 471 Pennsylvania avenue northwest, owned by T. M. Whitney. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 15, 1888.

September 16.—No. 90. Vertical tubular boiler in restaurant, corner Seventh and G streets northwest, owned by Schwing & Clarke. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 16, 1888.

September 16.—No. 91. New horizontal tubular boiler in Carlisle building, corner Eleventh and F streets northwest, Woodward & Lothrop, proprietors. Hydrostatic pressure, 140 pounds. Working pressure 60 pounds; if necessary 70 pounds to square inch. Expires September 16, 1888.

September 19.—Nos. 92 and 93. New horizontal tubular boilers in Post building, corner Tenth and D streets northwest, owned by Washington Post Publishing Company. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds; if necessary, 70 pounds each to square inch. Expires September 19, 1888.

September 20.—No. 94. Locomotive-form boiler in planing-mill, Twelfth street and Ohio avenue northwest, owned by J. B. Hammond. Hydrostatic pressure, 115 pounds. Working pressure allowed, 75 pounds to square inch. Condemned for repairs; repaired and passed. Expires September 20, 1888.

September 21.—No. 95. Horizontal tubular boiler in iron foundry, Twelfth street and Ohio avenue northwest, owned by C. A. Schneider's Sons. Hydrostatic pressure, 75 pounds. Working pressure allowed, 50 pounds to square inch. Expires September 21, 1888.

September 26.—No. 96. Locomotive-form boiler in Metropolitan Hotel, W. H. Selden, proprietor. Examined and tested by hammer test. Working pressure allowed, 40 pounds to square inch. Expires September 26, 1888.

September 27.—No. 97. Vertical tubular boiler in wood and coal yard, Sixth and K streets northwest, owned by George W. Merrill. Hydrostatic pressure 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 27, 1888.

September 28.—No. 98. Horizontal tubular boiler in Harris's Bijou Theater, P. Harris, proprietor and manager. Hydrostatic pressure, 100 pounds. Working pressure allowed, 30 pounds; if necessary, 40 pounds to square inch. Expires September 28, 1888.

September 28.—No. 99. Locomotive-form boiler in wood and coal yard, Fourteenth and B streets northwest, owned by George Bogus. Hydrostatic pressure 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires September 28, 1888.

September 28.—Nos. 100 and 101. Horizontal tubular boilers in Washington Ammonia and Chemical Works, Twenty-seventh street northwest. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 28, 1888.

September 28.—No. 102. Horizontal tubular boiler in exhaust-house at gas-works, Twenty-sixth and G streets northwest, owned by Washington Gas-Light Company. Hydrostatic pressure, 110 pounds. Working pressure allowed, 70 pounds to square inch. Expires September 28, 1888.

September 29.—No. 103. Vertical tubular boiler in tannery, L street, between Sixth and Seventh southeast, owned by B. E. Baker. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires September 29, 1888.

September 29.—No. 104. Horizontal tubular boiler in Steam Marble Works, Thirteen-and-a-half and E streets northwest, owned by J. F. Manning. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 29, 1888.

September 30.—No. 105. Vertical tubular in Capitol Brewery, First and C streets northeast, owned by Henry Roembildt. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires September 30, 1888.

September 30.—No. 106. Vertical tubular boiler in wood and coal yard, Thirtieth street and canal, West Washington, owned by Mayfield & Heiston. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires September 30, 1888.

October 1.—No. 107. Vertical tubular boiler in Palace Steam Laundry, 113 Four-and-a-half street southwest, owned by W. F. Barker and E. Shephardson. Hydro-

static pressure, 120 pounds. Working pressure allowed, 70 pounds; if necessary, 80 pounds to square inch. Expires October 1, 1888.

October 3.—No. 108. Horizontal tubular boiler in Havener's Bakery, C street northwest, owned by Charlton & Graves. Hydrostatic pressure, 110 pounds. Working pressure allowed, 70 pounds to square inch. Expires October 3, 1888.

October 3.—No. 109. Vertical tubular boiler at National Library site, used for mixing concrete, owned by Elias E. Barnes, contractor. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires October 3, 1888.

October 3.—No. 110. New ocomotive-form boiler at National Library site, used for stone crushing, owned by Elias E. Barnes. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires October 3, 1888.

October 3.—No. 111. Vertical tubular boiler in gas-works, owned by Georgetown Gas-Light Company. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires October 3, 1888.

October 3.—Nos. 112 and 113. Horizontal tubular boilers in greenhouse, owned by J. H. Small & Son. Hydrostatic pressure, 80 pounds. Working pressure allowed, 40 pounds each to square inch. Expires October 3, 1888.

October 4.—No. 114. Vertical tubular boiler in oyster depot, 3004 M street, West Washington, owned by C. R. Fields. Hydrostatic pressure, 90 pounds. Working pressure allowed, 50 pounds to square inch. Expires October 4, 1888.

October 4.—No. 115. Vertical tubular boiler in chemical works, Twenty-seventh street northwest, owned by C. B. Warren & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires October 4, 1888.

October 5.—Nos. 116 and 117. Horizontal tubular boiler in Corcoran building, Fifteenth street and Pennsylvania avenue northwest, owned by W. W. Corcoran. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds each to square inch. Expires October 5, 1888.

October 6.—No. 118. Horizontal tubular boiler in Freedman's Hospital, Seventh street, northwest. Hydrostatic pressure, 105 pounds. Working pressure allowed, 60 pounds to square inch. Expires October 6, 1888.

October 6.—No. 119. New vertical tubular boiler owned by Depot Quartermaster's Office; to be used in pump house at Fort Myer, Va. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires October 6, 1888.

October 6.—No. 120. Vertical tubular boiler in the Morgan House, 3206 M street, West Washington, John R. and William H. Lang, proprietors. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires October 6, 1888.

October 8.—No. 121. Vertical tubular boiler in steam bakery, Thirteenth street northwest, owned by Charles E. Koller. Hydrostatic pressure, 80 pounds. Working pressure allowed, 40 pounds to square inch. Expires October 8, 1888.

October 10.—Nos. 122 and 123. Horizontal tubular boilers in dry goods house, Seventh street northwest, owned by Lansburgh & Brother. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds each per square inch. Expires October 10, 1888.

October 13.—No. 124. New vertical tubular in slaughter house Tenth and Boundary streets northeast, owned by J. A. Agustaffer. Hydrostatic pressure, 135 pounds. Working pressure allowed, 80 pounds to square inch. Expires October 13, 1888.

October 13.—No. 125. Vertical tubular boiler in wood and coal yard, 464 E street southwest, owned by R. J. Collins. Hydrostatic pressure, 85 pounds. Working pressure allowed, 50 pounds to square inch. Expires October 13, 1888.

October 13.—No. 126. Horizontal tubular boiler in Hotel Solaris, Solari Bros. proprietors. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires October 13, 1888.

October 13.—No. 127. Vertical tubular boiler at Littlefield's Wharf, used for hoisting purposes, owned by Lyman A. Littlefield. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires October 13, 1888.

October 14.—No. 128. Horizontal tubular boiler in Corcoran Building, owned by W. W. Corcoran. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires October 14, 1888.

October 14.—No. 129. New vertical tubular boiler in laundry at Columbia Institute for the Deaf and Dumb. Hydrostatic pressure, 150 pounds. Working pressure allowed, 90 pounds to square inch. Expires October 14, 1888.

October 14.—No. 130. Vertical tubular boiler in hot-house on Bladensburg road, owned by C. Strauss & Co. Hydrostatic pressure 150 pounds. Working pressure allowed, 90 pounds to square inch. Expires October 14, 1888.

October 15.—No. 131. Horizontal tubular boiler in Riggs House, C. W. Spofford, proprietor. Hydrostatic pressure, 110 pounds. Working pressure allowed, 70 pounds to square inch. Expires October 15, 1888.

October 17.—No. 132. Horizontal tubular boiler in Moses Building, corner Eleventh and F streets northwest, owned by W. B. Moses & Son. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires October 17, 1888.

October 17.—No. 133. New horizontal tubular boiler in Moses Building. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires October 17, 1888.

October 17.—No. 134. Horizontal tubular West boiler in brick-yard owned by Washington Brick-Machine Company. Hydrostatic pressure, 140 pounds. Working pressure allowed, 80 pounds to square inch. Expires October 17, 1888.

October 17.—No. 135. Horizontal tubular boiler in brick-yard owned by Washington Brick-Machine Company. Hydrostatic pressure, 140 pounds. Working pressure allowed, 80 pounds to square inch. Expires October 17, 1888.

October 17.—No. 136. Vertical tubular boiler in printing office, 1308 Pennsylvania avenue northwest, owned by R. H. Darby. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires October 17, 1888.

October 19.—No. 137. Vertical tubular boiler in Tremont House, Second street and Indiana avenue northwest, Sam Banks proprietor, Fred. E. Eberle manager. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires October 19, 1888.

October 19.—No. 138. New horizontal tubular boiler in Capital Brewery, First and C streets northeast, owned by Henry Roemhildt. Hydrostatic pressure, 150 pounds. Working pressure allowed, 90 pounds to square inch. Expires October 19, 1888.

October 28.—No. 140. New horizontal tubular boiler in building corner Thirteen-and-a-half and B streets northwest, owned by United States Electric Lighting Company. Hydrostatic pressure, 155 pounds. Working pressure allowed, 90 pounds to square inch. Expires October 28, 1888.

October 28.—No. 141. New horizontal tubular boiler in building Thirteen-and-a-half and B streets northwest, owned by United States Electric Lighting Company. Hydrostatic pressure, 155 pounds. Working pressure allowed, 90 pounds to square inch. Expires October 28, 1888.

October 28.—No. 142. New horizontal tubular boiler in building Thirteen-and-a-half and B streets northwest, owned by United States Electric Lighting Company. Hydrostatic pressure, 155 pounds. Working pressure allowed, 90 pounds to square inch. Expires October 28, 1888.

October 28.—No. 143. New horizontal tubular boiler in building Thirteen-and-a-half and B streets northwest, owned by United States Electric Lighting Company. Hydrostatic pressure, 155 pounds. Working pressure allowed, 90 pounds to square inch. Expires October 28, 1888.

October 28.—No. 144. New horizontal tubular boiler in building Thirteen-and-a-half and B streets northwest, owned by United States Electric Lighting Company. Hydrostatic pressure, 155 pounds. Working pressure allowed, 90 pounds to square inch. Expires October 28, 1888.

October 28.—No. 145. Horizontal tubular boiler at gas-holder, First and K streets southwest, owned by Washington Gas-Light Company. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires October 28, 1888.

November 1.—Nos. 146 and 147. New horizontal tubular boilers in New National Theater, W. H. Rapley, manager. Hydrostatic pressure, 130 pounds. Working pressure allowed, 60 pounds each to square inch. Expires November 1, 1888.

November 1.—No. 148. Horizontal tubular boiler in Freedman's Hospital, Seventh street northwest. Hydrostatic pressure, 125 pounds. Working pressure allowed, 60 pounds to square inch. Expires November 1, 1888.

November 3.—Nos. 149 and 150. Vertical tubular boilers in Harris House, J. H. Harris, proprietor. Hydrostatic pressure, 80 pounds. Working pressure allowed, 45 pounds each to square inch. Expires November 3, 1888.

November 4.—No. 151. New horizontal tubular boiler in The Clarendon, corner of Fourteenth street and New York avenue northwest, Mrs. M. J. Colley, proprietress. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires November 4, 1888.

November 7.—No. 152. Locomotive-form boiler in feed store corner North Capital and D streets northeast, owned by S. S. Daish. Hydrostatic pressure, 115 pounds. Working pressure allowed, 70 pounds to square inch. Expires November 7, 1888.

November 8.—No. 153. Vertical tubular boiler in Harris House, J. H. Harris, proprietor. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires November 8, 1888.

November 8.—No. 154. Vertical tubular boiler in Welcker's new hotel and restaurant, Fifteenth street, northwest, Ch. Felter proprietor. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires November 8, 1888.

November 8.—No. 155. Horizontal tubular boiler in The Hamilton House, William M. Gilson, proprietor. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires November 8, 1888.

November 12.—No. 156. New horizontal tubular boiler in feed and grain mill owned by McDowell & Sons. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires November 12, 1888.

November 15.—No. 157. Horizontal tubular boiler at Emery's wharf, foot of Sixth street southwest, owned by Samuel Emery. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires November 15, 1888.

November 15.—No. 158. Horizontal tubular boiler in the Hamilton House, William M. Gilson, proprietor. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires November 15, 1888.

November 16.—No. 159. Horizontal tubular boiler, machine-shop, Sixth and O streets southwest, owned by Charles White & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires November 16, 1888.

November 16.—No. 160. Vertical tubular boiler in laundry at Reform School. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires November 16, 1888.

November 17.—No. 161. Vertical tubular boiler in wood and coal yard, corner Eighth and O streets northwest, owned by C. H. Burgess. Hydrostatic pressure, 75 pounds. Working pressure allowed, 50 pounds to square inch. Expires November 17, 1888.

November 17.—No. 162. Vertical tubular boiler in the Belvedere, corner Third street and Pennsylvania avenue northwest, Hoadley & Co. proprietors. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires November 17, 1888.

November 18.—No. 163. Horizontal flue boiler at Stephenson's wharf, owned by Stephenson & Bro. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires November 18, 1888.

November 18.—No. 164. New horizontal tubular boiler in hot-house at Reform School. Hydrostatic pressure, 135 pounds. Working pressure allowed, 40 pounds; if necessary 60 pounds to square inch. Expires November 18, 1888.

November 19.—No. 165. Vertical tubular boiler in steam coffee-mills in alley H and I, and Four-and-a-half and Sixth streets southwest, owned by H. C. Browning. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires November 19, 1888.

November 19.—No. 166. Vertical tubular boiler in slaughter-house owned by Jacob J. West, Bladensburgh road. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires November 19, 1888.

November 19.—No. 167. Vertical tubular boiler in slaughter-house, Bladensburgh road, owned by N. Auth. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires November 19, 1888.

November 23.—No. 168. Vertical tubular boiler in Willard's Hotel, O. G. Staples proprietor. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires November 23, 1888.

November 25.—No. 169. New vertical tubular boiler in Kernan's Washington Theater, Eleventh and C streets northwest, James L. Kernan proprietor. Hydrostatic pressure, 120 pounds. Working pressure allowed, 50 pounds to square inch. Expires November 25, 1888.

November 26.—No. 170. Vertical tubular boiler in steam coffee-mills Seventh street and Maryland avenue southwest, owned by W. J. Lown. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires November 26, 1888.

November 26.—No. 171. Vertical tubular boiler in slaughter-house, Bladensburgh road, owned by Anton Ruppert. Hydrostatic pressure, 140 pounds. Working pressure allowed, 80 pounds to square inch. Condemned for a new boiler. Expires May 26, 1888, six months after date.

November 28.—No. 172. Horizontal tubular boiler in Sun building, A. S. Abell agent. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires November 28, 1888.

December 2.—No. 173. New vertical tubular boiler in Manual High School, 626 O street northwest, owned by District of Columbia, built by Beckham & Middleton. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires December 2, 1888.

December 5.—No. 174. Horizontal tubular boiler in Sun building, A. S. Abell agent. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires December 5, 1888.

December 6.—No. 175. Vertical tubular boiler in printing-office, 1319 F street northwest, owned by George B. Atkinson. Hydrostatic pressure, 100 pounds. Working pressure allowed, 40 pounds to square inch. Expires December 6, 1888.

December 6.—No. 176. Horizontal tubular boiler in Wormley's hotel, owned by James Wormley's Sons. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires December 6, 1888.

December 7.—No. 177. Horizontal tubular boiler in Wormley's hotel, owned by James Wormley's Sons. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires December 7, 1888.

December 7.—No. 178. Compound horizontal tubular boiler in wood and coal yard, Third and L streets northeast, owned by Arthur B. Smith. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires December 7, 1888.

December 7.—No. 179. Vertical tubular boiler in steam coffee-mills, New Jersey avenue and N street northwest, owned by J. A. Sweeny. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires December 7, 1888.

December 9.—No. 180. Vertical tubular boiler in printing-office, Ninth and D streets northwest, owned by Joseph L. Pearson. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires December 9, 1888.

December 9.—No. 181. Vertical tubular boiler in the Woodmont, J. A. Galleher manager. Hydrostatic pressure, 140 pounds. Working pressure allowed, 50 pounds to square inch. Expires December 9, 1888.

December 10.—No. 182. Locomotive form boiler in Morgan's steam-laundry, 517 Ninth street northwest, owned by John Morgan. Hydrostatic pressure, 80 pounds. Working pressure allowed, 50 pounds to square inch. Expires December 10, 1888.

December 16.—No. 183. Vertical tubular boiler in Pacific building, 622 and 624 F street northwest. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires December 16, 1888.

December 17.—No. 184. Vertical tubular boiler in printing-office owned by R. O. Polkinhorn. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Condemned for a new boiler five months after date. Expires May 17, 1888.

December 17.—No. 185. Vertical tubular boiler in Buckeye steam-laundry, 618 Ninth street northwest, owned by Conrad & Bozzell. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Condemned for a new boiler four months after date. Expires April 17, 1888.

December 19.—No. 186. Vertical tubular boiler in restaurant, corner Eighth and L streets southeast. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires December 19, 1888.

December 20.—No. 187. Vertical tubular boiler in printing-office 339 Pennsylvania avenue northwest, owned by Gray & Clarkson. Hydrostatic pressure, 80 pounds. Working pressure allowed, 50 pounds to square inch. Expires December 20, 1888.

December 28.—No. 188. Horizontal tubular boiler in National Hotel, W. H. Crosby proprietor. Hydrostatic pressure, 118 pounds. Working pressure allowed, 70 pounds to square inch. This boiler is in place of boiler condemned. Expires December 28, 1888.

January 2, 1888.—Nos. 189 and 190. Horizontal tubular boilers in feed and grain mill, owned by William Galt & Co. Hydrostatic pressure, 130 pounds. Working pressure allowed, 85 pounds each to square inch. Expires January 2, 1889.

January 5.—No. 191. Vertical tubular boiler in hot-house, 1817 E street northwest, owned by Henry Adams. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires January 5, 1889.

January 10.—No. 192. Vertical tubular boiler in wood and coal yard, Water street, West Washington, owned by C. C. Walker. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires January 10, 1889.

January 11.—No. 193. Vertical tubular boiler in United States jail, used for laundry purposes. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires January 11, 1889.

January 12.—No. 194. Horizontal tubular boiler in Washington Iron Foundry, 460 to 474 Maine avenue southwest, owned by George White & Sons. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Condemned for repairs; repaired and passed. Expires January 12, 1889.

January 14.—No. 195. Horizontal tubular boiler in National Brass Works, Thirteenth street northwest, owned by Thomas Sommerville & Sons. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires January 14, 1889.

January 16.—No. 196. Vertical tubular boiler in Eagle Iron Works, Fourteenth and B streets northwest, owned by Pettit & Dripps. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires January 16, 1889.

No. 197. Vertical tubular boiler in Washington Brass Works, 1212 D street northwest, owned by William H. Douglass. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires January 18, 1889.

No. 198. New vertical tubular boiler, in Central Iron Works, 1212 D street northwest, owned by J. B. Daughton. Hydrostatic pressure, 150 pounds. Working pressure allowed, 60 pounds; if necessary, 80 pounds to square inch. Expires January 18, 1889.

No. 199. Horizontal tubular boiler in South Washington Iron Works, owned by John Springman. Hydrostatic pressure, 75 pounds. Working pressure allowed, 60 pounds to square inch. Expires January 18, 1889.

February 1.—No. 200. Horizontal tubular boiler in brewery, E and Fourth streets northeast, owned by Albert Carry. Hydrostatic pressure, 140 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires February 1, 1889.

February 8.—No. 201. New vertical tubular boiler in printing office, 1108 E street northwest, owned by McQueen & Wallace. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires February 8, 1889.

February 9.—No. 202. Horizontal tubular boiler in Wooden File Works, Seventh street and Massachusetts avenue northwest, owned by E. W. Woodruff. Hydrostatic pressure, 95 pounds. Working pressure allowed, 60 pounds to square inch. Expires February 9, 1889.

February 9.—No. 203. Vertical tubular boiler in Congressional Hotel, New Jersey avenue and B street southeast, Henry Brock, proprietor. Hydrostatic pressure, 75 pounds. Working pressure allowed, 40 pounds; if necessary, 50 pounds to square inch. Expires February 9, 1889.

February 10.—No. 204. Horizontal tubular boiler in brewery, Fourth and E streets northeast, owned by Albert Carry. Hydrostatic pressure, 140 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires February 10, 1889.

February 18.—No. 205. Horizontal flue boiler in planing mill, Missouri avenue, between Four-and-a-half and Sixth streets southwest, owned by George T. Dearing. Hydrostatic pressure, 110 pounds. Working pressure allowed, 60 pounds to square inch. Expires February 18, 1889.

February 20.—Nos. 206 and 207. Horizontal tubular boilers in planing mill, Thirteenth and B streets northwest, owned by E. E. Jackson & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch each. Expires February 20, 1889.

February 20.—No. 208. Vertical tubular boiler in slaughter-house, Seventh street road, owned by Franz & Meister. Hydrostatic pressure, 95 pounds. Working pressure allowed, 60 pounds to square inch. Expires February 20, 1889.

February 21.—No. 209. New vertical tubular boiler in slaughter-house, Seventh street road, owned by A. Löffler. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires February 21, 1889.

February 21.—No. 210. Vertical tubular boiler, wood-yard, South Capitol street, owned by John Miller. Hydrostatic pressure, 105 pounds. Working pressure allowed, 60 pounds to square inch. Expires February 21, 1889.

February 25.—No. 211. Vertical tubular boiler in slaughter-house, One-half street southeast, owned by Fred Deitz. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires February 25, 1889.

February 27.—No. 212. Locomotive form boiler in printing office, 1308 Pennsylvania avenue northwest, owned by R. H. Darby. Hydrostatic pressure, 122 pounds. Working pressure allowed, 60 pounds; if necessary, 70 pounds to square inch. Vertical tubular boiler, No. 136, removed to Buckeye Steam Laundry. Expires February 27, 1889.

March 1.—Nos. 213 and 214. Horizontal tubular boilers in Washington Brewery, D street, between Thirteenth and Fourteenth streets southeast, owned by Henry Rabe. Hydrostatic pressure, No. 213, 130 pounds. Working pressure, 80 pounds to square inch. Hydrostatic pressure, No. 214, 140 pounds. Working pressure allowed, 80 pounds to square inch. Expire March 1, 1889.

March 2.—Nos. 215 and 216. Horizontal flue boiler in brick-yard, O and South Capitol streets, owned by A. Richards & Co. Hydrostatic pressure, 110 pounds. Working pressure allowed, 60 pounds each to square inch. Expire March 2, 1889.

March 10.—No. 217. Vertical tubular boiler in West End Steam Laundry, 1755 Pennsylvania avenue northwest, owned by Henry Wagner. Hydrostatic pressure, 90 pounds. Working pressure allowed 50 pounds; if necessary, 60 pounds to square inch. Expires March 10, 1889.

March 10.—No. 218. New horizontal tubular boiler, built by Pettitt & Dripps for printing office, E street between Eleventh and Twelfth, owned by Thomas McGill. Hydrostatic pressure, 160 pounds. Working pressure allowed, 80 pounds to square inch. This boiler is in place of old boiler, which was condemned. Expires March 10, 1889.

March 17.—Nos. 219 and 220. Horizontal tubular boilers in brick-yard, owned by

I. Childs & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds; if necessary, 80 pounds to square inch. Expires March 17, 1889.

March 19.—Nos. 221 and 222. Cylinder boilers at coal wharves, West Washington, owned by J. P. Agnew & Co. Hydrostatic pressure, 155 pounds. Working pressure allowed, 90 pounds each to square inch. Expire March 19, 1889.

March 21.—No. 223. Locomotive form boiler in The Nation's Monumental Works, 129 to 133 Pennsylvania avenue northwest, owned by D. McMenamin. Hydrostatic pressure, 140 pounds. Working pressure allowed, 90 pounds to square inch. Expires March 21, 1889.

March 22.—No. 224. Vertical tubular boiler in Union Market owned by J. J. Appich. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires March 22, 1889.

March 24.—No. 225. Vertical tubular boiler in Buckeye Steam Laundry, 618 Ninth street northwest, owned by Conrad & Bozzell. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. This boiler is in place of old boiler condemned. Expires March 24, 1889.

March 29.—Nos. 226 and 227. Horizontal tubular boiler in Glover Building, Thomas J. Fisher & Co., agents. Hydrostatic pressure, 75 pounds. Working pressure allowed, 45 pounds each to square inch. Expires March 29, 1889.

March 29.—No. 228. New vertical tubular boiler in Yale Steam Laundry, 522 Tenth street northwest, owned by P. H. Walker & Co. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires March 29, 1889.

March 30.—No. 229. Vertical tubular boiler in wood and coal yard, Water street northwest, owned by A. G. Johnson. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires March 30, 1889.

March 31.—No. 230. New horizontal tubular boiler in planing mill, Twenty-seventh and K streets northwest, owned by W. H. Dyer. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires March 31, 1889.

April 2.—No. 231. Vertical tubular boiler in bottling establishment, 420 Seventh street southwest, owned by George H. Butt. Hydrostatic pressure, 120 pounds. Working pressure allowed 80 pounds to square inch. Expires April 2, 1889.

April 3.—No. 232. Horizontal tubular boiler at coal wharf, Thirtieth street, West Washington, owned by Gilmor, Meredith & Co. Hydrostatic pressure, 125 pounds. Working pressure allowed, 80 pounds to square inch. Expires April 3, 1889.

April 3.—No. 233. Vertical tubular boiler in soap factory, Twenty-fifth and N streets northwest, owned by Memmert & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires April 3, 1889.

April 4.—No. 234. Vertical tubular boiler on steam-roller Dexter, owned by Cranford & Filbert. Hydrostatic pressure, 150 pounds. Working pressure allowed, 100 pounds to square inch. Condemned for repairs; repaired and passed; in good condition. Expires April 4, 1889.

April 5.—No. 235. Vertical tubular boiler in United States Agricultural Department. Hydrostatic pressure, 110 pounds. Working pressure allowed, 70 pounds to square inch. Expires April 5, 1889.

April 7.—No. 236. Horizontal tubular boiler in brick-yard, First and O streets, southeast, owned by A. Richards & Co. Hydrostatic pressure, 110 pounds. Working pressure allowed, 70 pounds to square inch. Expires April 7, 1889.

April 9.—No. 237. Vertical tubular boiler in Portland steam laundry, 1117 Fourteenth street northwest. Hydrostatic pressure, 140 pounds. Working pressure allowed, 90 pounds to square inch. Expires April 9, 1889.

April 10.—No. 238. Vertical tubular boiler on steam-roller Percy, owned by Cranford & Filbert. Hydrostatic pressure, 150 pounds. Working pressure, 100 pounds to square inch. Expires April 10, 1889.

April 10.—No. 239. Vertical tubular boiler at Littlefield's wharf, used for hoisting purposes, owned by Cranford & Filbert. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds; if necessary, 80 pounds to square inch. Expires April 10, 1889.

April 10.—No. 240. Locomotive form boiler used for crushing stone at Littlefield's wharf, owned by Cranford & Filbert. Hydrostatic pressure, 140 pounds. Working pressure allowed, 90 pounds to square inch. Expires April 10, 1889.

April 10.—No. 241. Horizontal tubular boiler in concrete works, Littlefield's wharf, owned by Cranford & Filbert. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires April 10, 1889.

April 11.—No. 242. Vertical tubular boiler in wood and coal yard foot of Twenty-sixth street northwest, owned by William E. Hodge. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires April 11, 1889.

April 12.—No. 244. Vertical tubular boiler at coffer-dam, foot of Long Bridge, owned by United States. Hydrostatic pressure, 150 pounds. Working pressure al-

lowed, 90 pounds; if necessary, 100 pounds to square inch. Condemned for repairs; repaired and passed. Expires April 12, 1889.

April 16.—No. 245. New horizontal tubular boiler in steam carpet-cleaning works, Maine avenue southwest, owned by L. Rice. Hydrostatic pressure, 160 pounds. Working pressure allowed, 90 pounds to square inch. In place of condemned boiler. Expires April 16, 1889.

April 19.—No. 246. Vertical tubular boiler in brick-yard, owned by John Webster. Hydrostatic pressure, 80 pounds. Working pressure allowed, 50 pounds to square inch. Expires April 19, 1889.

April 20.—No. 247. Locomotive form boiler in soap factory, Buzzard Point, owned by C. B. Jewell & Co. Hydrostatic pressure, 90 pounds. Working pressure allowed, 50 pounds to square inch. Expires April 20, 1889.

April 20.—No. 248. Vertical tubular boiler in feed store, Seventh street southwest, owned by Nixon Brewer. Hydrostatic pressure 120 pounds. Working pressure 70 pounds to square inch. Expires April 20, 1889.

April 21.—No. 249. Locomotive form boiler in wood and coal yard, Virginia and Delaware avenues southwest, owned by Walter H. Marlow. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires April 21, 1889.

April 23.—No. 250. New locomotive form boiler in depot 624 and 626 Virginia avenue southwest, owned by the Robert Portner Brewing Company. Hydrostatic pressure, 140 pounds. Working pressure allowed, 70 pounds to square inch. Condemned for repairs and for new set of braces in heads; repaired and passed and in good condition. Expires April 23, 1889.

April 25.—No. 251. Locomotive form boiler in wood and coal yard First street and Virginia avenue southwest, owned by William A. Eliason & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires April 25, 1889.

April 25.—No. 252. Horizontal tubular boiler in gas-works, Twenty-sixth and G streets northwest, used for hoisting purposes, owned by Washington Gas-Light Company. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires April 25, 1889.

April 25.—No. 253. Vertical tubular boiler foot of G street northwest, owned by J. Maury Dove, used for hoisting purposes. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires April 25, 1889.

April 26.—No. 254. Locomotive form boiler in wood and coal yard I street between Twenty-first and Twenty-second streets northwest, owned by J. Maury Dove. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires April 26, 1889.

April 27.—No. 255. Vertical tubular boiler in Washington Steam Coffee Mills, owned by T. F. Browning. Hydrostatic pressure, 90 pounds. Working pressure allowed, 50 pounds to square inch. Expires April 27, 1889.

April 27.—No. 256. Vertical tubular boiler in wood and coal yard Twelfth and C streets northwest, owned by Henry A. Clark & Son. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires April 27, 1889.

April 30.—No. 257. Horizontal tubular boiler in wood and coal yard Twelfth and Water streets northwest, owned by Johnson Bros. Hydrostatic pressure, 140 pounds. Working pressure, 90 pounds to square inch. Expires April 30, 1889.

April 30.—No. 258. Vertical tubular boiler in The Richmond, Seventeenth and H streets northwest, H. M. Cake, proprietor. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires April 30, 1889.

May 1.—No. 259. Vertical tubular boiler in slaughter-house G street between Third and Fourth streets northeast, owned by Charles Johnson. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 1, 1889.

May 1.—No. 260. Horizontal tubular boiler in Panorama Building Ohio avenue and Fifteenth street northwest. Hydrostatic pressure, 145 pounds. Working pressure allowed, 90 pounds to square inch. Expires May 1, 1889.

May 2.—No. 261. Horizontal tubular boiler in Palais Royal Twelfth street and Pennsylvania avenue northwest, owned by estate of A. D. Jessup, 628 Chestnut street, Philadelphia, Pa. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires May 2, 1889.

May 2.—No. 262. Horizontal tubular boiler in Palais Royal. Hydrostatic pressure, 90 pounds. Working pressure allowed, 40 pounds to square inch. Expires May 2, 1889.

May 2.—No. 263. Vertical tubular boiler in Palais Royal. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 2, 1889.

May 3.—No. 264. Locomotive form boiler in building Seventh street and Louisiana avenue northwest, owned by Fireman's Insurance Company. Hydrostatic pressure,

130 pounds. Working pressure allowed, 70 pounds to square inch. Expires May 3, 1889.

May 3.—No. 265. New horizontal tubular boiler in The Richmond corner Seventeenth and H streets northwest, H. M. Cake, proprietor. Hydrostatic pressure, 150 pounds. Working pressure allowed, 60 pounds; if necessary, 70 pounds to square inch. Expires May 3, 1889.

May 5.—No. 266. Vertical tubular boiler in wood and coal yard Fourteenth and C streets northwest, owned by J. Edward Chapman. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 5, 1889.

May 5.—No. 267. Vertical tubular boiler at Atlantic Building F street northwest, used for hoisting purposes, owned by Lane & Mallatti. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Condemned three months after date. Expires August 5, 1889.

May 7.—No. 268. Horizontal tubular boiler in Palais Royal. Hydrostatic pressure, 140 pounds. Working pressure allowed, 70 pounds to square inch. Expires May 7, 1889.

May 7.—No. 269. Locomotive form boiler in Ebbitt House, C. C. Willard. Hydrostatic pressure, 75 pounds. Working pressure allowed, 45 pounds to square inch. Expires May 7, 1889.

May 7.—No. 270. Horizontal tubular boiler in brewery, owned by C. Heurich. Hydrostatic pressure, 130 pounds. Working pressure allowed, 75 pounds to square inch. Condemned for repairs. Expires four months after date, September 7, 1889.

May 8.—No. 271. New horizontal tubular boiler in The Richmond Seventeenth and H streets northwest, owned by H. M. Cake. Hydrostatic pressure, 150 pounds. Working pressure allowed, 60 pounds; if necessary, 70 pounds to square inch. Expires May 8, 1889.

May 9.—No. 272. Locomotive form boiler in car stables owned by North O street and South Capitol street Railroad Company. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires May 9, 1889.

May 9.—No. 273. Vertical tubular boiler at Twelfth and N streets southeast, used for pumping purposes, owned by Washington Gas-Light Company. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Condemned.

May 10.—No. 274. Vertical tubular boiler in printing office 523 Seventh street northwest, owned by R. Beresford. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires May 10, 1889.

May 10.—No. 275. Vertical tubular boiler at gas-holder Third and Maryland avenue southwest, owned by Washington Gas-Light Company. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Condemned for repairs; repaired and passed. Expires May 10, 1889.

May 11.—No. 276. Vertical tubular boiler at Twelfth and N streets southeast, used for pumping purposes, owned by Washington Gas-Light Company. Hydrostatic pressure, 100 pounds. Working pressure allowed, 50 pounds to square inch. Expires May 11, 1889.

May 11.—No. 277. Vertical tubular boiler in wood and coal yard Third and P streets northwest, owned by J. E. Divver. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires May 11, 1889.

May 11.—No. 278. Vertical tubular boiler at Twelfth and N streets southeast, used to run steam-plow, owned by W. H. Mohler, contractor. Hydrostatic pressure, 150 pounds. Working pressure allowed, 90 pounds; if necessary, 100 pounds to square inch. Expires May 11, 1889.

May 14.—Nos. 279, 280. Horizontal tubular boilers in building Rock Creek and Canal, West Washington, used to run air compressors, owned by Beckwith, Quackenbush & Co., contractors. Hydrostatic pressure, 125 pounds. Working pressure allowed, 75 pounds each to square inch. Expires May 14, 1889.

May 14.—No. 282. Horizontal tubular boiler in soap factory Water street, West Washington, owned by Weaver, Kengla & Co. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 14, 1889.

May 15.—No. 283. Horizontal tubular boilers in planing mill, owned by Wood Bros. Hydrostatic pressure, 125 pounds. Working pressure allowed, 70 pounds to square inch. Expires May 15, 1889.

May 15.—No. 284. Horizontal tubular boilers in Pacific Building F street between Sixth and Seventh streets northwest. Hydrostatic pressure, 120 pounds. Working pressure, 80 pounds to square inch. Expires May 15, 1889.

May 17.—No. 285.—Vertical tubular boiler in wood and coal yard Twelfth and Rhode Island avenue northwest, owned by P. Pollard. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires May 17, 1889.

May 18.—No. 286. Vertical tubular boiler in wood and coal yard Samson street northwest, owned by Peter Dunn. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 18, 1889.

May 19.—No. 287. Horizontal tubular boiler in brewery, owned by C. Heurich. Hydrostatic pressure, 135 pounds. Working pressure allowed, 75 pounds to square inch. Condemned for repairs; repaired and passed. Expires May 19, 1889.

May 19.—No. 288. New horizontal tubular boiler, built by Pettitt & Dripps to be used in planing-mill Thirteenth and C streets northwest, owned by F. A. Belt. Hydrostatic pressure, 160 pounds. Working pressure allowed, 80 pounds; if necessary, 90 pounds to square inch. Expires May 19, 1889.

May 21.—No. 289. Horizontal tubular boiler in planing-mill foot of Fourth street southeast, owned by T. B. Cross, jr. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 21, 1889.

May 21.—No. 290. Vertical tubular boiler in dyeing establishment Four-and-a-half street southwest, owned by John G. Barthel. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires May 21, 1889.

May 21.—No. 291. Vertical tubular boiler in wood and coal yard foot of Third street southeast, owned by William H. Richards & Co. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Condemned for repairs; repaired and passed. Expires May 21, 1889.

May 21.—No. 292. New vertical tubular boiler in steam laundry 701 First street northwest, owned by A. H. Lloyd. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 21, 1889.

May 22.—No. 293. Horizontal tubular boiler in St. James Hotel, Levi Woodbury, proprietor. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires May 22, 1889.

May 22.—No. 294. New horizontal tubular boiler in Lenman Building 1425 New York avenue northwest, owned by J. T. Lenman. Hydrostatic pressure, 150 pounds. Working pressure allowed, 55 pounds; if necessary, 70 pounds to square inch. Expires May 22, 1889.

May 23.—No. 295. Vertical tubular boiler in Palace Steam Laundry 113 Four-and-a-half street northwest. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Condemned for repairs; repaired and passed. Expires May 23, 1889.

May 24.—No. 296. Locomotive form boiler in steam carpet-cleaning works Seventh street southwest, owned by Chase & Bro. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires May 24, 1889.

May 25.—No. 297. Vertical tubular boiler in grocery store Pennsylvania avenue northwest, owned by James L. Barbour. Hydrostatic pressure, 140 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 25, 1889.

May 25.—No. 298. Horizontal tubular boiler in St. James Hotel, Levi Woodbury, proprietor. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires May 25, 1889.

May 26.—No. 299. New vertical tubular boiler in Dexter Steam Laundry Sixth and C streets northwest, owned by H. M. Dexter. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds; if necessary, 100 pounds to square inch. Expires May 26, 1888.

May 28.—No. 300. Locomotive form boiler in machine-shop, Seventh street southwest, owned by Fresberg, Murray & Co. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds to square inch. Expires May 28, 1889.

May 28.—No. 301. Horizontal tubular boiler in planing mill, Thirteenth and C streets northwest owned by F. A. Belt. Hydrostatic pressure, 125 pounds. Working pressure allowed, 80 pounds to square inch. Condemned for new boiler. Expires July 28, 1888.

May 29.—No. 302. New horizontal tubular boiler in Lenman building, owned by J. T. Lenman. Hydrostatic pressure, 150 pounds. Working pressure allowed, 55 pounds; if necessary, 70 pounds to square inch. Expires May 29, 1889.

May 29.—No. 303. Vertical tubular boiler at building corner New Jersey avenue and B street northwest, used for hoisting purposes by Robert Clarkson, contractor, and owned by William Willson. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires May 30, 1889.

June 1.—No. 304. Vertical tubular boiler in saw-mill, Thirtieth street, West Washington, owned by W. H. and C. R. Schutt. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires June 1, 1889.

June 1.—No. 305. Vertical tubular boiler in printing-office G street northwest, owned by George E. Lemon. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 1, 1889.

June 1.—No. 306. Horizontal tubular boiler at Littlefield's wharf, owned by A. L. Barber & Co. Hydrostatic pressure, 125 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 1, 1889.

June 1.—No. 307. Locomotive form boiler in asphalt works at Littlefield's wharf, owned by A. L. Barber & Co. Hydrostatic pressure, 125 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 1, 1889.

June 2.—No. 308. Vertical tubular boiler in machine-shop and foundry, Maine avenue southwest, owned by E. N. Gray & Co. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 2, 1889.

June 3.—No. 309. New locomotive form boiler in building, Ninth and Water streets southwest, owned by the Smith National Cycle Manufacturing Company. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 3, 1889.

June 4.—No. 310. Vertical tubular boiler in Capitol Steam Laundry, owned by Schaaß & Chase. Hydrostatic pressure, 125 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 4, 1889.

June 4.—Nos. 311 and 312. Horizontal tubular boilers in building southwest corner Thirteenth street and Pennsylvania avenue northwest, owned by Richmond and Danville Railroad Company. Hydrostatic pressure, 115 pounds. Working pressure allowed, 50 pounds (each) to square inch. Expires June 4, 1889.

June 5.—No. 313. Horizontal tubular boiler in Swiss Laundry, owned by Ira Godfrey. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 5, 1889.

June 5.—No. 314. Horizontal tubular boiler in exhaust house at gas works, Twenty-sixth and G streets northwest, owned by Washington Gas-Light Company. Hydrostatic pressure, 125 pounds. Working pressure allowed, 60 pounds; if necessary, 70 pounds to square inch. Expires June 5, 1889.

June 5.—No. 315. Vertical tubular boiler in Electric Steam Laundry, E between Ninth and Tenth streets northwest, owned by C. T. Nutze. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 5, 1889.

June 6.—No. 316 and 317. Horizontal tubular boilers in Grand Army building, owned by G. G. Cornwell & Son. Hydrostatic pressure, 90 pounds. Working pressure allowed, 60 pounds (each) to square inch. Expires June 6, 1889.

June 7.—No. 318. Horizontal tubular boiler in brewery owned by C. Heurich. Hydrostatic pressure, 130 pounds. Working pressure allowed, 75 pounds to square inch. Condemned for repairs; repaired and passed. Expires June 7, 1889.

June 7.—No. 319. Vertical tubular boiler in Mount Olivet Cemetery. Hydrostatic pressure, 160 pounds. Working pressure allowed, 90 pounds to square inch. Expires June 7, 1887.

June 8.—No. 320. Vertical tubular boiler in dyeing establishment, 906 G street northwest, owned by Anton Fischer. Hydrostatic pressure, 90 pounds. Working pressure allowed, 50 pounds to square inch. Expires June 8, 1889.

June 8.—No. 321. Locomotive form boiler at Sixth-street wharf, owned by George L. Sheriff. Hydrostatic pressure, 85 pounds. Working pressure allowed, 50 pounds to square inch. Expires June 8, 1889.

June 9.—No. 322. Vertical tubular boiler in dyeing establishment, 1205 New York avenue northwest, owned by Anton Lerch. Hydrostatic pressure, 130 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 9, 1889.

June 9.—No. 323. Horizontal tubular boiler in pump house at gas works, Twenty-sixth and G streets northwest, owned by Washington Gas-Light Company. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 9, 1889.

June 11.—No. 324. New vertical tubular boiler in Excelsior Steam Laundry, Mrs. Simmons, proprietress. Hydrostatic pressure, 150 pounds. Working pressure allowed, 60 pounds; if necessary, 80 pounds to square inch. Expires June 11, 1889.

June 12.—No. 325. Horizontal tubular boiler in warehouse, corner Four-and-a-half street and Virginia avenue southwest, owned by James L. Barbour. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 12, 1889.

June 13.—No. 326. Locomotive form boiler at yard, Twenty-eighth and K streets northwest, owned by A. L. Barber & Co. Hydrostatic pressure, 125 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 13, 1889.

June 13.—No. 327. Horizontal tubular boiler at yard, Twenty-eighth and K streets northwest, stone crusher, owned by A. L. Barber & Co. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 13, 1889.

June 13.—No. 328. Vertical tubular boiler in slaughter-house, Bladensburg road, owned by J. H. Ruppert. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 13, 1889.

June 13.—No. 329. Vertical tubular boiler in slaughter-house, Bladensburg road, owned by C. Keiny. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 13, 1889.

June 15.—No. 330. Vertical tubular boiler in printing-office, 623 D street northwest, owned by J. F. Sheiry. Hydrostatic pressure, 125 pounds. Working pressure allowed, 60 pounds; if necessary, 70 pounds to square inch. Expires June 15, 1889.

June 15.—No. 331. Locomotive form boiler in printing-office, 319 Four-and-a-half street northwest, owned by J. P. Wright. Hydrostatic pressure, 125 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 15, 1889.

June 15.—No. 332. Horizontal tubular boiler at Thirteenth-street wharf southwest, owned by E. M. Willis. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires June 15, 1889.

June 15.—No. 333. Horizontal tubular boiler in Small building, corner Fourteenth and G streets northwest, owned by J. H. Small & Son. Hydrostatic pressure, 120 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 15, 1889.

June 18.—No. 334. Horizontal tubular boiler in machine-shop and foundry, Water street, West Washington, owned by Beckham & Middleton. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 18, 1889.

June 18.—No. 335. New horizontal tubular boiler in the Washington Architectural Iron Works, Thirty-third and Water streets, West Washington, owned by Edward L. Dent. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 18, 1889.

June 18.—No. 336. Locomotive form boiler in stone-crushing works, Water street, West Washington, owned by H. P. Gilbert. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 18, 1889.

June 19.—No. 337. Horizontal tubular boiler in pump house at gas works, Twenty-sixth and G streets northwest, owned by Washington Gas-Light Company. Hydrostatic pressure, 130 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 19, 1889.

June 19.—No. 338. Horizontal tubular boiler in Small building, Fourteenth and G streets northwest, owned by J. H. Small & Son. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 19, 1889.

June 20.—No. 339. Vertical tubular boiler in building, southwest corner Pennsylvania avenue and Thirteenth streets northwest, owned by Richmond and Danville Railroad Company. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 20, 1889.

June 21.—No. 340. Vertical tubular boiler in bakery, 413 I street northwest, owned by Charles Schneider. Hydrostatic pressure, 150 pounds. Working pressure allowed, 90 pounds to square inch. Expires June 21, 1889.

June 22.—No. 341. Horizontal tubular boiler in Swiss Steam Laundry, owned by Ira Godfrey. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires June 22, 1889.

June 23.—No. 342. Vertical tubular boiler in Godey's lime kilns, Twenty-seventh and L streets northwest, owned by Edward Godey. Hydrostatic pressure, 120 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 23, 1889.

June 23.—No. 343. Vertical tubular boiler at Twenty-first and Boundary streets northwest, owned by the Washington Heights Water Company. Hydrostatic pressure, 150 pounds. Working pressure allowed, 90 pounds to square inch. Expires June 23, 1889.

June 25.—No. 344. New horizontal flue-boiler in planing-mill, foot of Ninth street southwest, owned by Wimsatt & Uhler. Hydrostatic pressure, 150 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 25, 1889.

June 25.—No. 345. Horizontal tubular boiler in car stables owned by Metropolitan Railroad Company. Hydrostatic pressure, 125 pounds. Working pressure allowed, 75 pounds to square inch. Expires June 25, 1889.

June 26.—No. 346. Vertical tubular boiler in slaughter-house, Twenty-third street, between O and P streets northwest, owned by G. L. Botsch. Hydrostatic pressure, 110 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 26, 1889.

June 26.—No. 347. Vertical tubular boiler in slaughter-house, Twenty-third street, between O and P streets northwest, owned by J. J. Pflueger. Hydrostatic pressure, 110 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 26, 1889.

June 26.—No. 348. Vertical tubular boiler in wood and coal yard, First street and Virginia avenue southwest, owned by William A. Eliason & Co. Hydrostatic pressure, 130 pounds. Working pressure allowed, 50 pounds—if necessary, 70 pounds—to square inch. Expires June 26, 1889.

June 26.—No. 349. Vertical tubular boiler in wood and coal yard, No. 12 H street northeast, owned by Kennedy Bros. Hydrostatic pressure, 100 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 26, 1889.

June 26.—No. 350. Vertical tubular boiler in grocery store, 946 to 950 Louisiana avenue northwest, owned by T. H. Walker & Co. Hydrostatic pressure, 130 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 26, 1889.

June 27.—No. 351. Horizontal tubular boiler at Ninth street wharf, owned by Independent Ice Company. Hydrostatic pressure, 115 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 27, 1889.

June 27.—No. 352. Vertical tubular boiler at Ninth street wharf, owned by Inde-

pendent Ice Company. Hydrostatic pressure, 125 pounds. Working pressure allowed, 80 pounds to square inch. Expires June 27, 1889.

June 27.—No. 353. Vertical tubular boiler in bottling works, corner North Capitol street and G street northeast, owned by T. D. Harper. Hydrostatic pressure, 130 pounds. Working pressure allowed, 70 pounds to square inch. Expires June 27, 1889.

June 27.—No. 354. Locomotive form boiler in feed store, 50 and 52 H street northeast, owned by H. P. Pillsbury. Hydrostatic pressure, 115 pounds. Working pressure allowed, 60 pounds to square inch. Expires June 27, 1889.

June 27.—No. 355. Vertical tubular boiler in steam coffee-mills, Four-and-a-half street, near Pennsylvania avenue northwest, owned by W. E. Thomas. Hydrostatic pressure, 120 pounds. Working pressure allowed, 70 pounds to square inch. Expires June 27, 1889.

June 28.—Nos. 356 and 357. Horizontal tubular boilers in building 924 D street northwest, owned by Adams Express Company. Hydrostatic pressure, 100 pounds. Working pressure allowed, 40 pounds—if necessary, 60 pounds—to square inch, each. Expires June 28, 1889.

The past year has been one of success in the office of steam-boiler inspection, as my report shows the increase of steam-boilers inspected to be 51 more than the previous year, but it has caused considerable labor and energy upon the part of the inspector to accomplish the work of the office. I consider the office one of the most responsible positions within the gift of the Commissioners of the District of Columbia. In protection to life and property, with all the care and attention I have given to the position, we have had two explosions during the year, which is an unusual occurrence, as we have only had one before. The reports of the examining board fully show the causes of the explosion.

JOHN H. WILKERSON,
Steam-Boiler Inspector.

THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

H. Ex. 1, pt. 6—27

P.

REPORT OF THE PROPERTY CLERK.

WASHINGTON, *September 1, 1888.*

GENTLEMEN: In accordance with your request of July 9, asking for a detailed statement of the operations of the office of the property clerk for the year ending June 30, 1888, and for recommendations for increasing the efficiency of the office, together with an estimate of the amount necessary for the support of the office for the fiscal year ending June 30, 1890, I have the honor to report that the labors of the office were greatly increased during the fiscal year ending June 30, 1888; that the awarding of the annual contracts for supplies for the District among so many different contractors increased the labors of the office nearly fourfold. All requisitions for supplies, material, and expenditures of all kinds are referred to me for final action, to issue orders on contractors, and to purchase in open market. These requisitions have increased about 25 per cent. during the year. The present system of purchasing supplies has been very satisfactory; lower prices are obtained through the contract system and through the purchasing of supplies by the property clerk that are not under contract.

During October, 1887, my able and only assistant, Ralph Baldwin, resigned his position. At the same time Mr. M. C. Hargrove was detailed to do duty in my office. I put him to do the work formerly done by Mr. Baldwin—in charge of requisitions, issuing orders upon contractors based upon requisitions approved by the Commissioners. Mr. Hargrove has proved a most efficient clerk, is faithful, steady, and industrious. Two other men were detailed to my office to assist, who did good service under my directions. It consumed a great deal of my time to instruct the new men, consequently I had to remain in my office very closely most of the time during office hours, and could only attend to my outside duties after office hours, during the evening and night. The number of requisitions forwarded to me for action was 3,650. The number of orders for supplies given was 8,300. The number of vouchers examined, briefed, and forwarded to the auditor for payment was 3,830. In regard to recommendations advisable with the object of increasing the efficiency of the office, I have to say that I have a force of clerks sufficiently large to do the work of the office, and after they get entirely acquainted and familiar with the work which may be allotted to them, I am sure they will be good and efficient clerks. I hope and trust they will be permitted to remain in their present positions, and I have to say further, that for the fiscal year ending June 30, 1890, I urgently recommend that a more liberal provision be made for

the employés of this office, thereby making the estimate as follows, viz :

| | |
|---------------------------------|---------|
| One property clerk..... | \$1,600 |
| One clerk..... | 1,200 |
| One clerk..... | 1,000 |
| One clerk..... | 800 |
| One messenger..... | 600 |
| Three watchmen, \$480 each..... | 1,440 |
| Contingent expenses..... | 300 |
| Making in all..... | 6,940 |

Very respectfully,

F. O. BECKETT,
Property Clerk.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

CLASS 1.—*Stationery.*

Total amount purchased, as per
invoices and vouchers..... \$7,253.69

Issued as follows, to—

| | |
|---|----------|
| Executive department..... | 243.72 |
| Engineer department..... | 581.84 |
| Water department..... | 220.28 |
| Auditor's office..... | 77.77 |
| Collector's office..... | 111.85 |
| Attorney's office..... | 29.20 |
| Public schools..... | 5,063.59 |
| Fire department..... | 16.12 |
| Police court..... | 54.06 |
| Washington Asylum..... | 115.56 |
| Police department..... | 406.83 |
| Health department..... | 135.98 |
| Parking commission..... | 10.63 |
| Inspector of gas-meters..... | 6.75 |
| Assessor's office..... | 102.48 |
| Telegraph and telephone serv-
ice..... | 4.47 |
| Miscellaneous expenses..... | 72.56 |
| | 7,253.69 |

CLASS 2.—*Blank forms and printing.*

Total amount purchased, as per
invoices and vouchers..... \$9,823.10

Issued as follows, to—

| | |
|---|----------|
| Executive department..... | 327.55 |
| Engineer department..... | 1,150.92 |
| Miscellaneous expenses District
of Columbia..... | 1,554.20 |
| Water department..... | 579.51 |
| Auditor's office..... | 136.18 |
| Collector's office (includes de-
linquent tax list)..... | 2,322.45 |
| Attorney's office..... | 30.72 |
| Assessor's office..... | 509.32 |
| Judicial expenses..... | 127.51 |
| Inspector of gas and meters.... | 125.13 |
| Public schools..... | 1,868.59 |
| Fire department..... | 78.86 |
| Inspector of buildings..... | 11.33 |

CLASS 2.—*Blank forms, etc.—Continued.*

| | |
|-------------------------|----------|
| Police court..... | \$30.91 |
| Parking commission..... | 6.09 |
| Washington Asylum..... | 52.80 |
| Health Office..... | 380.92 |
| Police department..... | 519.77 |
| Board of plumbers..... | 10.34 |
| | 9,823.10 |

CLASS 3.—*School books.*

Total amount purchased, as per
invoices and vouchers..... \$2,112.10

Issued as follows, to—

| | |
|----------------------|----------|
| Public schools..... | 2,103.60 |
| Fire department..... | 2.00 |
| Health office..... | 6.50 |
| | 2,112.10 |

CLASS 4.—*Furniture.*

Total amount purchased, as per
invoices and vouchers..... \$15,610.69

Issued as follows, to—

| | |
|--|-----------|
| Executive department..... | 211.03 |
| Engineer department..... | 144.88 |
| Water department..... | 145.99 |
| Auditor's office..... | 5.49 |
| Collector's office..... | 10.95 |
| Attorney's office..... | 2.38 |
| Public schools (school desks,
\$8,000)..... | 12,707.21 |
| Fire department..... | 460.28 |
| Police court..... | 7.70 |
| Washington Asylum..... | 314.85 |
| Police department..... | 1,264.40 |
| Health office..... | 58.49 |
| District building..... | 234.28 |
| Telegraph and telephone serv-
ice..... | 2.71 |
| Assessor's office..... | .79 |
| Miscellaneous expenses..... | 39.26 |
| | 15,610.69 |

CLASS 5.—*Hardware.*

Total amount purchased, as per
invoices and vouchers \$6, 029. 32

| Issued as follows, to— | |
|--|------------------|
| Executive department | . 94 |
| Engineer department | 1, 085. 09 |
| Water department | 234. 44 |
| Attorney's office | 1. 21 |
| Public schools | 3, 033. 19 |
| Fire department | 416. 39 |
| Police court | 11. 30 |
| Washington Asylum | 637. 89 |
| Police department | 150. 05 |
| Health office | 22. 02 |
| Parking commission | 225. 78 |
| Markets | 44. 86 |
| Telegraph and telephone serv-
ice | . 44 |
| Miscellaneous expenses | 165. 72 |
| | <hr/> 6, 029. 32 |

CLASS 6.—*Tinware and street lamps.*

Total amount purchased, as per
invoices and vouchers \$4, 313. 68

| Issued as follows, to— | |
|--|------------------|
| Engineer department | 1, 603. 98 |
| Water department | 18. 50 |
| Auditor's office | . 50 |
| Fire department | 142. 76 |
| Police department | 194. 95 |
| Public schools (repairs to fur-
naces and stoves) | 1, 701. 63 |
| Attorney's office | 21. 66 |
| Telegraph and telephone serv-
ice | 16. 00 |
| Police court | 131. 30 |
| Washington Asylum | 406. 95 |
| Health office | 25. 65 |
| District building | 4. 25 |
| Inspector of gas and meters .. | 20. 20 |
| Markets | 1. 40 |
| Miscellaneous items | 23. 95 |
| | <hr/> 4, 313. 68 |

CLASS 7.—*Plumbers' material.*

Total amount purchased, as per
invoices and vouchers \$3, 780. 82

| Issued as follows, to— | |
|--|------------------|
| Engineer department | 44. 87 |
| Water department | 3, 135. 50 |
| Public schools | 187. 20 |
| Fire department | 102. 02 |
| Washington Asylum | 274. 68 |
| Police department | 10. 00 |
| Telegraph and telephone serv-
ice | 2. 10 |
| Miscellaneous items | 24. 45 |
| | <hr/> 3, 780. 82 |

CLASS 8.—*Groceries.*

Total amount purchased, as per
invoice and vouchers \$13, 336. 87

| Issued as follows, to— | |
|--|-------------------|
| Engineer department | 31. 30 |
| Water department | 17. 26 |
| Collector's office | 1. 90 |
| Fire department | 70. 09 |
| Police department | 74. 96 |
| Public schools | 61. 73 |
| Washington Asylum | 13, 036. 60 |
| Health office | 5. 09 |
| Parking commission | 3. 36 |
| Telegraph and telephone serv-
ice | 2. 50 |
| Assessor's office | 1. 43 |
| Inspector of gas and meters .. | 1. 94 |
| Police court | 26. 44 |
| Miscellaneous items | 2. 27 |
| | <hr/> 13, 336. 87 |

CLASS 9.—*Boots and shoes.*

Total amount purchased, as per
invoices and vouchers \$1, 337. 33

| Issued as follows, to— | |
|---------------------------|------------------|
| Engineer department | 104. 10 |
| Washington Asylum | 1, 230. 33 |
| Health office | 2. 90 |
| | <hr/> 1, 337. 33 |

CLASS 10.—*Drugs.*

Total amount purchased, as per
invoices and vouchers \$1, 532. 83

| Issued as follows, to— | |
|--|------------------|
| Executive department | . 35 |
| Engineer department | 23. 10 |
| Water department | 42. 94 |
| Fire department | 142. 10 |
| Police department | 64. 59 |
| Public schools | 41. 53 |
| Police court | . 93 |
| Washington Asylum | 1, 053. 82 |
| Health office | 38. 68 |
| Parking commission | 1. 66 |
| Inspector of gas and meters .. | 3. 43 |
| Telegraph and telephone serv-
ice | 84. 15 |
| Transportation of prisoners .. | 10. 40 |
| Miscellaneous expenses District
of Columbia | 25. 15 |
| | <hr/> 1, 532. 83 |

CLASS 11.—*Glass, paints, and varnish.*

Total amount purchased, as per
invoices and vouchers \$1, 516. 30

| Issued as follows, to— | |
|---------------------------|---------|
| Engineer department | 131. 58 |
| Water department | 340. 92 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 421

CLASS 11.—Glass, paints, etc.—Continued.

| | |
|---|----------------|
| Fire department..... | \$182.45 |
| Police department..... | 34.51 |
| Health office..... | 8.18 |
| Parking commission..... | 6.30 |
| Building inspector..... | 8.23 |
| Public schools..... | 355.16 |
| Washington Asylum..... | 445.59 |
| Miscellaneous expenses District
of Columbia..... | 3.38 |
| | <hr/> 1,516.30 |

CLASS 12.—Lumber and building material.

| | |
|--|------------------|
| Total amount purchased, as per
invoices and vouchers..... | <hr/> \$9,402.30 |
| Issued as follows, to— | |
| Engineer department..... | 4,108.14 |
| Water department..... | 169.59 |
| Fire department..... | 34.50 |
| Police department..... | 45.55 |
| Washington Asylum..... | 913.25 |
| Public schools..... | 2,096.64 |
| Health office..... | 18.64 |
| Parking commission..... | 240.55 |
| Inspector of buildings..... | 1,744.72 |
| Miscellaneous expenses District
of Columbia..... | 30.72 |
| | <hr/> 9,402.30 |

CLASS 13.—Forage.

| | |
|---|------------------|
| Total amount purchased, as per
invoices and vouchers.. | <hr/> \$9,962.74 |
| Issued as follows, to— | |
| Executive department..... | 190.25 |
| Engineer department..... | 726.71 |
| Water department..... | 420.57 |
| Fire department..... | 3,978.75 |
| Police department..... | 1,053.00 |
| Washington Asylum..... | 2,099.37 |
| Health office..... | 353.73 |
| Parking commission..... | 176.56 |
| Transportation of prisoners... | 510.08 |
| Telegraph and telephone serv-
ice..... | 157.25 |
| Repairs and purchase of pumps | 74.76 |
| Assessor's office..... | 23.23 |
| Street sweeping and cleaning. | 30.85 |
| Miscellaneous expenses District
of Columbia..... | 167.63 |
| | <hr/> 9,962.74 |

CLASS 14.—Fresh meats and corned beef.

| | |
|--|------------------|
| Total amount purchased, as per
invoices and vouchers..... | <hr/> \$5,450.98 |
| Issued as follows, to— | |
| Washington Asylum..... | 5,450.98 |
| | <hr/> 5,450.98 |

CLASS 15.—Bacon and ham.

| | |
|--|----------------|
| Total amount purchased, as per
invoices and vouchers..... | <hr/> \$909.80 |
| Issued as follows, to— | |
| Washington Asylum..... | 909.80 |
| | <hr/> 909.80 |

CLASS 16.—Lamp-posts and miscellaneous castings.

| | |
|--|------------------|
| Total amount purchased, as per
invoices and vouchers..... | <hr/> \$8,025.66 |
| Issued as follows, to— | |
| Engineer department..... | 5,372.70 |
| Water department..... | 2,400.31 |
| Fire department..... | 185.93 |
| Inspector of buildings..... | 66.72 |
| | <hr/> 8,025.66 |

CLASS 17.—Fuel.

| | |
|---|-------------------|
| Total amount purchased, as per
invoice and vouchers..... | <hr/> \$35,376.59 |
| Issued as follows, to— | |
| Public schools..... | 19,893.65 |
| Waterdepartment..... | 8,274.15 |
| Washington Asylum..... | 2,838.30 |
| Fire department..... | 1,557.09 |
| Police department..... | 922.89 |
| Police court..... | 571.31 |
| Engineer department..... | 425.86 |
| District building..... | 251.55 |
| Health office..... | 107.15 |
| Telegraph and telephone serv-
ice..... | 79.50 |
| Attorney's office..... | 61.55 |
| Markets..... | 46.56 |
| Inspector of gas and meters... | 51.56 |
| Harbor master..... | 18.32 |
| Public stable..... | 15.57 |
| Parking commission..... | 10.40 |
| Miscellaneous expenses District
of Columbia..... | 251.20 |
| | <hr/> 35,376.59 |

CLASS 18.—Dry goods.

| | |
|--|------------------|
| Total amount purchased, as per
invoices and vouchers..... | <hr/> \$4,015.11 |
| Issued as follows, to— | |
| Executive department..... | 3.53 |
| Fire department..... | 263.98 |
| Police department..... | 186.64 |
| Washington Asylum..... | 3,442.22 |
| Health office..... | 3.10 |
| Public schools..... | 99.34 |
| District building..... | 12.00 |
| Telegraph and telephone serv-
ice..... | 3.30 |
| Miscellaneous expenses Dis-
trict of Columbia..... | 1.00 |
| | <hr/> 4,015.11 |

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CLASS 19.—*Lime and cement.*

Total amount purchased, as per
invoices and vouchers \$5,525.89

Issued as follows, to—
Engineer department..... 5,263.55
Water department..... 50.23
Public schools..... 131.57
Markets..... 3.40
Police department..... 2.70
Washington Asylum..... 50.56
Health office..... 1.88
Parking commission..... 20.40
Fire department..... 1.60
5,525.89

CLASS 20.—*Ice.*

Total amount purchased, as per
invoices and vouchers \$1,284.48

Issued as follows, to—
District offices..... 302.24
Fire department..... 158.03
Police department..... 266.30
Washington Asylum..... 357.96
Telephone and telegraph serv-
ice..... 53.19
Attorney's office..... 15.40
Inspector of gas and meters... 17.41
Police court..... 54.90
Health office..... 14.70
Coroner's office..... 11.10
Public schools..... 33.25
1,284.48

CLASS 21.—*Telephone and telegraph supplies.*

Total amount purchased, as per
invoices and vouchers \$1,855.34

Issued as follows, to—
Telephone and telegraph serv-
ice..... 1,836.45
Public schools..... 18.89
1,855.34

CLASS 22.—*Construction material.*

Value of material on hand July
1, 1887 \$39,554.06
Amount purchased to June 30,
1888 94,011.26
133,565.32
Total amount on hand June 30,
1888 27,566.84
Amount issued to June 30, 1888. 105,998.48
133,565.32

CLASS 23.—*Miscellaneous supplies.*

EXPENSES AND REPAIRS.

For various offices in District building.

Awnings..... \$304.82
Repairs to furniture..... 217.46
Washing towels..... 311.92
Gas-fixtures..... 260.30
Speaking-tubes..... 22.00
Books..... 5.50
Engineer District building.... 367.98
Cuspidors and spittoons..... 40.25
Repairs to clocks..... 68.50
Hauling..... 22.40
Cleaning carpets..... 5.72
Scrubbing material..... 12.00
Miscellaneous items..... 18.71

Total 1,657.56

For executive department.

New harness and repairs..... 184.00
Repairs to vehicles..... 427.95
Book-binding..... 142.95
Type-writer materials and re-
pairs..... 97.85
Horseshoeing..... 80.50
Livery..... 255.25
Papering room..... 92.00
Rent of stable..... 60.35
Awnings..... 40.10
Car tickets..... 79.04
Repairs to furniture..... 108.00
Care of horses..... 14.08
Veterinary services..... 14.85
Papers..... 7.20
Stamps and pads..... 13.75
Miscellaneous items..... 16.59

Total 1,634.46

For engineer department.

One 10-ton roller..... \$4,010.00
Horses..... 635.00
Tools and repairs..... 523.64
Rent of square 473..... 300.00
One crushing machine..... 600.00
Repairs to vehicles..... 460.10
Horseshoeing..... 257.82
Engine for stone-crusher..... 360.00
Rent of stable..... 391.50
Livery..... 966.89
Book-binding..... 323.72
Chemicals..... 244.14
New harness and repairs..... 298.23
Photographic and drawing ma-
terial..... 201.23
New vehicles..... 435.00
Type-writer material and re-
pairs..... 136.85
Repairs to furniture..... 113.30
Tide-gauge and water-gauge.. 125.00
Care of horses..... 104.76
Tickets..... 95.57
Repairs to tricycle..... 51.75

For engineer department—Continued.

| | |
|---|-----------|
| Surveyor's instruments..... | \$50.20 |
| Stamps and pads | 33.85 |
| Electric bells..... | 39.00 |
| Repairs to field instruments
and tape lines..... | 44.30 |
| Veterinary services..... | 33.55 |
| Hauling..... | 21.24 |
| Papers..... | 32.44 |
| Hose and castings..... | 61.90 |
| Calculating machine | 30.00 |
| Repairs to lanterns..... | 45.85 |
| Cloth pockets..... | 16.25 |
| Miscellaneous items | 30.34 |
| Total | 10,923.72 |

For water department.

| | |
|--|------------|
| Castings, pipe, cocks, etc..... | \$4,079.46 |
| New pumps and repairs..... | 1,042.73 |
| Hauling | 487.64 |
| Car tickets..... | 149.98 |
| New harness and repairs..... | 54.93 |
| Pine plugs..... | 72.50 |
| Livery and pasturage..... | 58.96 |
| Chemicals..... | 125.00 |
| Packing | 28.60 |
| Special oil..... | 42.80 |
| Book-binding | 40.25 |
| Stamps and pads..... | 30.90 |
| Scales | 50.00 |
| Repairs to wagon..... | 66.00 |
| Papering room..... | 27.00 |
| Piling pipe..... | 36.75 |
| Repairs to tricycle..... | 17.75 |
| Gas-fixtures..... | 19.75 |
| Horseshoeing | 33.18 |
| Drawing material..... | 49.47 |
| Book-binding and mounting
maps | 121.25 |
| Repairs to furniture | 36.75 |
| Tin roof on pumping-house... | 20.00 |
| Leather..... | 37.73 |
| Blacksmith's vise | 10.00 |
| Type-writer material and re-
pairs..... | 5.90 |
| Repairs to electrical apparatus | 6.77 |
| Papers..... | 12.50 |
| Miscellaneous items | 40.71 |
| Total | 6,805.26 |

For auditor's office.

| | |
|----------------------------|---------|
| Book-binding..... | \$60.30 |
| Car tickets..... | 7.80 |
| Stamps and pads | 13.25 |
| Repairs to furniture | 2.75 |
| Miscellaneous items | 1.90 |
| Total | 86.00 |

For collector's office.

| | |
|-----------------------|----------|
| Dog tags..... | \$133.00 |
| Car tickets..... | 38.48 |
| Book-binding | 33.50 |
| Stamps and pads | 6.25 |
| Total | 211.23 |

For assessor's office.

| | |
|--------------------------|---------|
| Repairs to wagon..... | \$34.50 |
| Stamps and pads | 9.50 |
| Book-binding | 37.00 |
| Pasturing horse | 6.97 |
| Car tickets..... | 9.89 |
| Horse shoeing | 7.50 |
| Veterinary services..... | .65 |
| Total | 106.01 |

For district attorney's office.

| | |
|----------------------------|---------|
| Cleaning carpets | \$20.60 |
| Repairs to furniture | 27.80 |
| Total | 48.40 |

For public schools.

| | |
|---|------------|
| Industrial instruction (crock-
ery, groceries, lumber, tools,
etc.) | \$2,315.65 |
| Moving, repairing, and reset-
ting furniture..... | 2,011.43 |
| Gas-fixtures | 446.15 |
| Diplomas | 283.95 |
| Hauling..... | 768.55 |
| Cleaning..... | 166.60 |
| Book-binding | 256.60 |
| Chemicals..... | 395.98 |
| Work benches (industrial in-
struction) | 900.00 |
| Drawing material..... | 35.75 |
| Cleaning carpets | 16.11 |
| Industrial exhibition (rent of
E Street Rink, drapery, etc.).. | 193.00 |
| Work on water-tank..... | 55.20 |
| Rent of opera-house (for com-
mencement High School)... | 79.50 |
| Rent of A. M. E. Church (for
commencement colored
school)..... | 60.00 |
| Repairs to type-writer..... | 18.00 |
| Disinfectant | 37.50 |
| Washing towels..... | 17.95 |
| New clock and repairs..... | 378.74 |
| Miscellaneous items | 35.80 |
| Total | 8,472.46 |

For fire department.

| | |
|--|------------|
| Repairs to apparatus | \$2,302.86 |
| Horses | 2,350.00 |
| New vehicles and hose car-
riage | 1,770.00 |
| Washing..... | 313.54 |
| Hose and couplings..... | 2,775.50 |
| Chemicals..... | 40.87 |
| Fire extinguishers..... | 98.40 |
| Veterinary service..... | 69.20 |
| Repairs to vehicle | 76.75 |
| Pasturage..... | 118.46 |
| Life-nets | 181.50 |
| Cleaning and putting down
carpets | 32.90 |
| Fire bells | 46.75 |
| Badges and buttons | 71.20 |

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For fire department—Continued.

| | |
|-------------------------------|----------|
| Repairs to furniture | \$28. 00 |
| Combs and brushes | 16. 67 |
| Renovating mattresses | 100. 00 |
| Oat cleaners | 75. 00 |
| Awnings | 32. 00 |
| File-cases | 18. 00 |
| Ladders | 20. 80 |
| Hauling | 40. 97 |
| Papers | 28. 00 |
| Mounting maps | 4. 25 |
| New harness and repairs | 903. 88 |
| For miscellaneous items | 25. 60 |

Total 11,541. 10

For Metropolitan police.

| | |
|---|-----------|
| Repairs to vehicles | \$724. 47 |
| Book-binding | 430. 75 |
| Horseshoeing | 200. 75 |
| Horses | 950. 00 |
| New patrol wagon | 325. 00 |
| New harness and repairs | 373. 45 |
| Stamps and badges | 227. 42 |
| Insect destroyer | 23. 50 |
| Cleaning carpets | 32. 23 |
| Repairs to clocks | 12. 50 |
| Repairs to furniture | 410. 72 |
| Arms and police calls | 66. 95 |
| Livery | 20. 53 |
| Awning covers | 4. 00 |
| Cartridges | 48. 00 |
| Brushes and combs | 35. 75 |
| Gas-fixtures | 70. 90 |
| Type-writer material and re-
pairs | 19. 50 |
| Veterinary services | 3. 15 |
| Car tickets | 14. 89 |
| Miscellaneous items | 30. 65 |

Total 4,025. 11

For health officer.

| | |
|--|----------|
| Book-binding | \$16. 85 |
| Repairs to vehicles | 220. 40 |
| Repairs to furniture | 258. 55 |
| Horse-shoeing | 46. 15 |
| Chemicals | 116. 91 |
| Rent of health office and stable | 100. 00 |
| New harness and repairs | 280. 00 |
| Cartridges | 148. 70 |
| Awnings | 30. 00 |
| Repairs to pound | 17. 75 |
| Repairs to room | 23. 00 |
| Hose and couplings | 6. 00 |
| Badges | 15. 60 |
| Papers | 5. 00 |
| Sharpening tools | 11. 24 |
| Stamps and pads | 24. 30 |
| Autocopyist material | 21. 00 |
| Disinfectant | 3. 50 |
| Miscellaneous items | 13. 85 |
| Type-writer material | 8. 30 |

Total 1,367. 10

For police court.

| | |
|------------------------------------|-----------|
| Repairs to furniture | \$121. 18 |
| Books and binding | 98. 50 |
| Hauling | 10. 15 |
| Disinfectant | 26. 15 |
| Stamps and pads | 10. 75 |
| Telephone charges | 2. 85 |
| Door-spring | 4. 75 |
| Electric-bell | 10. 00 |
| Repairs to numbering machine | 5. 00 |
| Miscellaneous items | .75 |

Total 290. 08

For parking commission.

| | |
|------------------------------------|-------------|
| Wire netting | \$1,275. 00 |
| Whitewashing trees and boxes | 239. 14 |
| Hauling soil | 227. 60 |
| Tools and plow points | 54. 97 |
| Wagons | 195. 00 |
| Repairs to wagons | 62. 75 |
| Horse-shoeing | 37. 75 |
| Tree stakes | 360. 92 |
| New harness and repairs | 59. 50 |
| Seed and trees | 52. 35 |
| Leather straps | 16. 00 |

Total 2,580. 98

For telephone and telegraph service.

| | |
|---|-------------|
| Rent of telephones and ex-
change service | \$3,066. 28 |
| Repair of telephones and tele-
phone service | 198. 50 |
| New wagon | 125. 00 |
| New harness and repairs | 35. 00 |
| Miscellaneous items | 2. 00 |

Total 3,426. 78

For Washington Asylum.

| | |
|--|-----------|
| Agricultural implements and
seeds | \$493. 98 |
| Repairs to building | 298. 47 |
| House furnishing goods | 198. 75 |
| Underwear | 212. 80 |
| Sewing-machine | 57. 00 |
| Disinfectant | 66. 50 |
| Leather | 119. 07 |
| Repairs to vehicles | 42. 75 |
| Iron bedsteads | 146. 25 |
| Awnings | 33. 00 |
| Chemicals | 27. 61 |
| Blue denim | 138. 75 |
| Book-binding | 27. 75 |
| New harness and repairs | 127. 00 |
| Repairs to clocks | 17. 00 |
| Gas fixtures | 23. 25 |
| Horse-shoeing | 16. 75 |
| Scales and weights | 19. 00 |
| Miscellaneous items | 129. 31 |

Total 2,194. 99

For inspector of gas and meters.

| | |
|---------------------------------|---------|
| Repairs to gas apparatus | \$20.70 |
| Repairs to watch and clock | 12.50 |
| Meter seals | 30.25 |
| Candles | 20.00 |
| Ventilating caps | 18.00 |
| Binding books | 6.00 |
| Car tickets | 4.99 |
| Washing towels | 3.40 |
| Total | 115.84 |

For transportation of prisoners.

| | |
|---------------------------|----------|
| Horse | \$225.00 |
| Horseshoeing | 54.00 |
| Repairs to stable | 76.00 |
| Repairs to harness | 29.62 |
| Repairs to van | 246.50 |
| Veterinary services | 1.15 |
| Livery | 9.00 |
| Car tickets | 4.99 |
| Total | 646.26 |

For building inspector.

| | |
|-----------------------------------|---------|
| Iron beams, slate, and felt | \$67.02 |
| Pumps, nozzles, etc | 37.90 |
| Car tickets | 44.93 |
| Horse shoeing | 6.00 |
| Livery | 20.00 |
| Disinfectant | 9.50 |
| Total | 185.35 |

For coroner's office.

| | |
|--------------------------|---------|
| Book-binding | \$14.00 |
| Lawyers' portfolio | 7.35 |
| Total | 21.35 |

For surveyor's office.

| | |
|--------------------|----------|
| Book-binding | \$140.50 |
| Total | 140.50 |

For register of wills.

| | |
|--------------------------------|----------|
| File-holders and jackets | \$246.25 |
| Book-binding | 114.00 |
| Total | 360.25 |

For miscellaneous expenses.

| | |
|------------------------------------|----------|
| Care of horses at public stable .. | \$430.65 |
| Book-binding | 177.21 |
| Repairs to wagon | 35.00 |
| Repairs to harness | 18.52 |
| Horseshoeing | 45.75 |
| Rent of stable and repairs | 63.60 |
| Veterinary services | 9.30 |
| Hauling | 27.50 |
| Repairs to chair | 2.75 |
| Hair-brushes | .85 |
| Two fire-axes | 10.90 |
| Total | 822.03 |

| | |
|---|------------|
| Total for miscellaneous supplies, expenses, etc | 57,677.15 |
| Total for year ending June 30, 1888 | 300,144.03 |

Q.

REPORT OF THE MARKET-MASTERS.

Q 1.

WASHINGTON, D. C., *September 2, 1888.*

GENTLEMEN: In compliance with your order requiring full reports of transactions of the different bureaus of the District government for fiscal year ending June 30, 1888, and estimated amount necessary for support of same during the fiscal year ending June 30, 1889, I beg leave to submit the following, viz:

The monthly receipts of rents of stalls and stands in the Western Market ending June 30, 1888, and deposited by me with collector, as per receipts, have been, viz:

| | | | |
|----------------------|----------|----------------------|------------|
| July, 1887..... | \$498.50 | February, 1888..... | 510.00 |
| August, 1887..... | 505.50 | March, 1888..... | 495.00 |
| September, 1887..... | 508.50 | April, 1888..... | 504.00 |
| October, 1887..... | 513.00 | May, 1888..... | 504.00 |
| November, 1887..... | 501.00 | June, 1888..... | 496.00 |
| December, 1887..... | 507.80 | | |
| January, 1888..... | 510.00 | Total for year | \$6,056.30 |

As the cost of gas and other incidentals do not pass through this office I have no definite knowledge of expenditures, but they have been very limited.

In behalf of the dealers in this market and the public in general, I again most respectfully call your attention to the very much needed repairs of this market, and would most respectfully suggest that an appropriation of at least \$2,000 will be required to place it in a comfortable and creditable condition to all concerned. The roof leaks badly, causing much dissatisfaction among the dealers; the pavement of market is in a very bad condition and should be fixed, to prevent the undermining by the rats (which are very destructive) and destroy their hiding places; the windows and doors are unmanageable and in a dilapidated condition, and should be protected by storm-doors, and the windows should be fixed to swing open, to properly ventilate the market. The dealers claim that rough sheds should be built in the market-yard for the protection of their horses and wagons during stormy weather. In fact, the market wants a thorough overhauling to make it comfortable and creditable to all concerned. Once put in passable condition, it would require but a small expenditure to keep it so for years. As you will perceive by my monthly returns, this market is yielding the District government a larger revenue than ever before, and in justice to the dealers and their patrons should be put in at least a comfortable and creditable condition. This market is only second to the Center Market in point of quantity, quality, and variety of goods.

I would also respectfully suggest for your consideration the justice of allowing a small amount of extra labor in this market. It covers a

larger area of ground than both the other markets, and brings in double the amount of revenue of the other two markets, and consequently requires additional help. The market should be drenched every week during warm weather and twice a month during cold weather, and to do so necessarily requires extra help to handle the hose, etc., and should be provided against sudden snows, etc. These duties can not possibly be performed by one laborer, and I suggest a small contingent fund to pay for extra help when absolutely necessary.

I also submit a statement, as per books of my predecessors, giving the status of the bonus stands and stalls in the Western Market, which may be useful in future reference :

The following shows the name and date of original purchase, and amount sold for at the time, and also names of present owners, July, 1888 :

Number of bonus stands in Western Market, 47.

| Number of stands. | Date of sale, November 21, 1876. | | Present owners. |
|-------------------|--|-----------------------|--|
| | Name of original purchaser and business. | Amount sold for. | |
| 67, 68 | Botsch, Leonard, butcher..... | \$1,000.00 | Botsch, Leonard, butcher. |
| *65, 66 | Ehmantraut & Bro., butchers..... | 1,050.00 ⁵ | 66 William A. Ehmantraut, butcher.
65 A. Loeffler, butcher. |
| 58, 59 | Gerhardt, George, butcher..... | 1,040.00 | Gerhardt, George, butcher. |
| 41, 42 | Linkins, William, & Son, butchers .. | 1,030.00 | Linkins, William, butcher. |
| 69, 70 | Murray, Alex., butcher..... | 1,110.00 | Murray, Alex., butcher. |
| †50, 51 | Homiller, Charles, & Son, butchers .. | 1,180.00 | Keating, Thomas J., butcher. |
| 56 | Pfleugar, John, butcher..... | 350.00 | Pfleugar, Mrs. John, butcher. |
| 49 | Bernard Geier, butcher..... | 510.00 | Ruppert, J. H., butcher. |
| 63 | Hass, Fred, butcher..... | 350.00 | Woodey, E. T., butcher. |
| 57 | Smith, Robert, butcher..... | 350.00 | Woodey, E. T., butcher. |
| 64 | Woodey, E. T., butcher..... | 350.00 | Woodey, E. T., butcher. |
| 61, 62 | Weaver, Thomas, butcher..... | 800.00 | Weaver Bros., butchers. |
| 44 | Yoste, Henry, butcher..... | 350.00 | Yoste, Henry, butcher. |
| 33 | Heider, William, huckster..... | 400.00 | Heider, William, huckster. |
| 32 | Wendell, I. H., huckster..... | 400.00 | Wendell, J. H., huckster. |
| 53 | Kidwell, Levi B., huckster..... | 415.00 | Kidwell, Levi B., huckster. |
| 52 | Miller, John, huckster..... | 415.00 | Miller, John, huckster. |
| 104, 105 | Thompson, R. L., huckster..... | 650.00 | McPherson & Co., hucksters. |
| 60 | Elie, I. W., & Son, hucksters..... | 300.00 | Elie, Daniel, huckster. |
| 26 | Pfeil, I. K., bacon..... | 400.00 | Pfeil, J. K., bacon. |
| 43 | Perry, Josiah, bacon..... | 350.00 | Perry, Fred, bacon. |
| 77 | Frank, L. E., butter..... | 505.00 | Caldwell, John, butter. |
| 78 | Coburn, H. C., butter..... | 575.00 | Coburn, H. C., butter. |
| 74 | Fearson, J. C., butter..... | 757.50 | Fearson, J. B., butter. |
| 39 | Gleason, E. P., butter..... | 525.00 | Hough, P. V., butter. |
| 40 | Williams, William T., butter..... | 575.00 | Hough, P. V., butter. |
| 55 | Hough, W. W., butter..... | 600.00 | Hough, W. W., butter. |
| 54 | Sacks, E. J., butter..... | 505.00 | Sacks, E. J., butter. |
| 76 | Krafft, George, miscellaneous..... | 757.50 | Krafft Sons, miscellaneous. |
| 45 | Kaiser, Justus, miscellaneous..... | 300.00 | Kaiser, Justus, miscellaneous. |
| 34 | Schultz, Hugo, miscellaneous..... | 400.00 | Schulz, J. H., miscellaneous. |
| 101 | Ockerhausen, John, miscellaneous.... | 400.00 | Ockerhausen, John, miscellaneous. |
| 103 | Guttenson, John, miscellaneous..... | 400.00 | Guttenson, John, miscellaneous. |
| 72 | Reisinger, John H., miscellaneous.... | 225.00 | Reisinger, John H., miscellaneous. |
| 47 | Schenck, John, miscellaneous..... | 400.00 | Schenck, John, miscellaneous. |
| 46 | Smith, Thomas H., miscellaneous..... | 300.00 | Hough, P. V., miscellaneous. |
| 2 | Cross, William M., fish dealer..... | 225.00 | Cross, William M., fish dealer. |
| 3 | Cross, William M., fish dealer..... | 225.00 | Cross, William M., fish dealer. |

* 65 transferred July 1888. † 50 and 51 transferred July 1888. ‡ 63 and 57 transferred July 1888.

One hundred and five stands in all. Forty-seven bonus stands, at half rentage.

Respectfully submitted.

R. A. WATERS,
In Charge of Western Market.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Q 2.

EASTERN MARKET,
Washington, September 4, 1888.

GENTLEMEN: I have the honor to submit the following inclosed statement of receipts of the market under my charge for the fiscal year ending June 30, 1888. The building is sadly in want of paint, and a great many other repairs are needed. Two additional gas lamps should be placed around the market to afford proper light, one on the southwest corner and one in the rear of the building on the west side. I would most respectfully suggest for the consideration of your honorable board that the laborer at the market whose salary is \$100 per annum be increased.

Very respectfully,

GEO. H. GADDIS,
Market Master.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Statement of receipts of the Eastern Market for the year ending June 30, 1888.

| Class of stalls. | Number of stalls. | Monthly rent. | Receipts for rent. | Received for extra gas. |
|--------------------|-------------------|---------------|--------------------|-------------------------|
| Butcher..... | 18 | \$4. 50 | \$962. 00 | 37. 00 |
| Bacon..... | 5 | 4. 00 | 240. 00 | |
| Butter..... | 8 | 4. 00 | 384. 00 | |
| Miscellaneous..... | 6 | 4. 00 | 288. 00 | |
| Fish..... | 4 | 3. 00 | 144. 00 | |
| Huckster..... | 39 | 3. 00 | 1, 342. 00 | 37. 00 |
| Total..... | 80 | ..... | 3, 360. 00 | |

Total amount received and deposited with collector District of Columbia, \$3,397.

Q 3.

GEORGETOWN, August 2, 1888.

GENTLEMEN: I have the honor as directed to furnish you a detailed statement of the operations of the Georgetown Market for the fiscal year ending June 30, 1888:

Class of stands:

| | |
|--|-------------------|
| Hucksters..... | 24 |
| Butchers..... | 16 |
| Bread and butter..... | 12 |
| Bacon..... | 4 |
| Miscellaneous..... | 4 |
| Number of stands..... | 60 |
| Number rented..... | 46 |
| Monthly rent (each)..... | \$2. 16 |
| Received for rent of stands..... | \$1, 212. 40 |
| Received from Sunday school for gas..... | 29. 53 |
| Sale of fish stands..... | 67. 50 |
| | <u>1, 309. 43</u> |

Expenses.

| | | |
|-------------------------------|-----------|---------------|
| Salary of market master | \$900. 00 | |
| Amount paid for gas | 106. 37 | |
| | <hr/> | \$1, 006. 37 |
| Balance | | <hr/> 303. 44 |

I would respectfully state that I have no recommendations to make in regard to the market, as everything is working well.

Very respectfully,

W. H. WILLIAMS,
Market Master.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R.

REPORT OF INSPECTORS OF WOOD, LUMBER, AND FLOUR.

R 1.

WASHINGTON, D. C., August 2, 1888.

GENTLEMEN: I herewith submit my second annual report as inspector of fuel for the District of Columbia, and measurer of wood for Potomac district, to July 1, 1888.

I have inspected and weighed 8,175 tons of coal, and measured 13,146 cords of wood.

Very respectfully,

WM. M. DOVE.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 2.

WASHINGTON, D. C., August 15, 1888.

GENTLEMEN: Please find inclosed statement of wood inspected and measured in Anacostia district from July 1, 1887, to June 30, 1888, inclusive.

Very respect'y,

A. W. EATON,

Inspector and Measurer of Wood for Anacostia District.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Statement of wood inspected and measured in Anacostia district.

| Date. | Pine. | Oak. | Total. |
|----------------|-------------------|-------------------|---------------------|
| 1887. | <i>Cords.</i> | <i>Cords.</i> | <i>Cords.</i> |
| July..... | 776 | 47 $\frac{3}{4}$ | 823 $\frac{3}{4}$ |
| August..... | 778 | 131 $\frac{3}{4}$ | 909 $\frac{3}{4}$ |
| September..... | 661 | 192 | 853 |
| October..... | 608 $\frac{1}{2}$ | 169 $\frac{3}{4}$ | 778 $\frac{1}{4}$ |
| November..... | 602 $\frac{3}{4}$ | 106 $\frac{3}{4}$ | 709 $\frac{3}{8}$ |
| December..... | 111 $\frac{1}{2}$ | 90 $\frac{5}{8}$ | 202 $\frac{3}{8}$ |
| 1888. | | | |
| March..... | 159 | 52 $\frac{3}{4}$ | 211 $\frac{3}{4}$ |
| April..... | 393 $\frac{1}{4}$ | 76 $\frac{1}{2}$ | 469 $\frac{3}{4}$ |
| May..... | 880 $\frac{1}{4}$ | 147 $\frac{1}{2}$ | 1,027 $\frac{3}{4}$ |
| June..... | 456 $\frac{1}{4}$ | 88 $\frac{1}{2}$ | 544 $\frac{3}{4}$ |
| Total..... | | | 6,530 $\frac{1}{4}$ |

R 3.

GEORGETOWN, D. C., *July 31, 1888.*

GENTLEMEN: In compliance with the instructions from your office dated July 13, 1888, I have the honor to state that during the fiscal year ending June 30, 1888, I inspected and measured 8,100 cords of wood, the same having come in about equal parts from the States of Maryland and Virginia.

I have no suggestions to offer other than those contained in my last annual report.

Very respectfully, your obedient servant,

HENRY BURROWS,
Inspector of Wood, Rock Creek District.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 4.

WASHINGTON, D. C., *August 10, 1888.*

GENTLEMEN: The undersigned, measurers and inspectors of lumber, have the honor to submit the following report of the lumber measured and inspected by us for the fiscal year ending June 30, 1888:

| | Feet. |
|------------------|------------|
| Yellow pine..... | 14,144,017 |
| Oak..... | 103,246 |
| Poplar..... | 87,930 |
| Cypress..... | 126,876 |
| Ash..... | 1,559 |
| Gum..... | 5,516 |
| White pine..... | 41,946 |
| Total..... | 14,481,090 |

Respectfully submitted.

GEO. Z. COLISON,
E. L. HARBAUGH,
E. CHAMPLIN,
Inspectors and Measurers of Lumber.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 5.

GEORGETOWN, D. C., *August 24, 1888.*

GENTLEMEN: I respectfully beg leave to submit my annual report of lumber inspected at the port of Georgetown, D. C., from June 30, 1887, to June 30, 1888, which is as follows:

| | Feet. |
|--------------------|-----------|
| Virginia pine..... | 5,711,258 |
| Georgia pine..... | 654,856 |
| Poplar..... | 12,373 |
| Cypress..... | 18,173 |
| Ash..... | 7,715 |
| Oak..... | 10,105 |

| | |
|--------------|-----------|
| | Feet. |
| Birch..... | 4,644 |
| Palings..... | 2,202 |
| Total..... | 6,421,326 |

Very respectfully,

REZIN W. DARBY,
Inspector.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 6.

WASHINGTON, D. C., *August 16, 1888.*

GENTLEMEN: I herewith respectfully submit a detailed statement of the operations of my office for the fiscal year ending June 30, 1888:

Quantities and kinds of lumber measured and inspected.

| | |
|-------------------|-----------|
| | Feet. |
| Yellow pine | 6,877,308 |
| Oak | 11,627 |
| Cherry | 6,885 |
| Poplar..... | 22,319 |
| Mahogany | 501 |
| Cypress | 23,928 |
| Ash | 20,110 |
| Total | 6,962,678 |

Very respectfully,

THOS. R. RILEY,
Lumber Inspector.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 7.

WASHINGTON, D. C., *August 27, 1888.*

GENTLEMEN: I herewith respectfully submit the gross amount of flour inspected by my department for the fiscal year ending June 30, 1888, viz, 154,764 barrels.

Very respectfully, your obedient servant,

JAS. H. WELCH,
Flour Inspector.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R 8.

GEORGETOWN, D. C., *August 14, 1888.*

SIRS: The following is the amount of flour inspected by me for the fiscal year ending June 30, 1888: 46,736 barrels.

Very respectfully,

JACOB F. STAUB.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

S.

REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

WASHINGTON, D. C., *May 2, 1888.*

GENTLEMEN: I have the honor to submit the following report of the inspections made by me as sealer of weights and measures of the District of Columbia for the ten months ending April 30, 1888:

| | |
|--------------------------------------|-----|
| July, 1887 : | |
| Platform wagon-scales..... | 118 |
| Stores inspected | 60 |
| August, 1887 : | |
| Stores inspected | 49 |
| Spring-balance scales | 350 |
| September, 1887 : | |
| Stores inspected | 28 |
| October, 1887 : | |
| Platform wagon-scales | 118 |
| Platform-scales | 47 |
| Stores inspected | 59 |
| November, 1887 : | |
| Platform wagon-scales | 111 |
| Spring-balance scales, stores | 204 |
| Spring-balance scales, markets | 338 |
| Stores inspected | 247 |
| December, 1887 : | |
| Stores inspected | 217 |
| Platform-scales | 131 |
| Spring-balance scales | 163 |
| January, 1888 : | |
| Stores inspected | 160 |
| Platform-scales | 69 |
| Spring-balance scales | 121 |
| February, 1888 : | |
| Stores inspected | 94 |
| Platform-scales | 31 |
| Spring-balance scales | 378 |
| March, 1888 : | |
| Stores inspected | 39 |
| Platform-scales | 15 |
| Spring balance scales | 28 |
| April, 1888 : | |
| Platform wagon-scales | 124 |
| Platform-scales | 71 |
| Spring-balance scales | 13 |
| Stores inspected | 69 |

Expense account.

| Date. | Receipts. | Expenses. |
|-----------------|-----------|-----------|
| 1887. | | |
| July | \$138. 47 | \$27. 47 |
| August | 149. 08 | 35. 50 |
| September | 36. 50 | 29. 50 |
| October | 247. 00 | 62. 00 |
| November | 295. 90 | 67. 50 |
| December | 210. 70 | 47. 00 |
| 1888. | | |
| January | 246. 00 | 63. 25 |
| February | 181. 00 | 43. 75 |
| March | 34. 25 | 27. 25 |
| April | 242. 00 | 62. 09 |

Respectfully submitted.

GEO. T. HOWARD,
Sealer of Weights and Measures.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

T.

REPORT OF THE HARBOR MASTER.

OFFICE OF THE HARBOR-MASTER,
Washington, D. C., November 16, 1888.

GENTLEMEN: I have the honor to submit herewith statements of facts relative to my services as harbor-master during the fiscal year ending June 30, 1888.

The tabular statements presented will explain themselves.

I can only renew my recommendation of last year regarding the urgent necessity for enactment of suitable harbor regulations.

The police and harbor boat procured near the end of the fiscal year accomplished good service, of which I will be enabled to speak at length in the report for the coming year.

I am, very respectfully,

J. R. SUTTON,
Harbor-Master,

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Statement showing by months the departure of boats from harbor of Washington, together with specifications of cargoes carried during year ending June 30, 1888.

| Months. | Vessels. | Soft coal. | Vessels. | Compost. | Boats moved to keep docks and channels clear. |
|-----------------|----------|------------|----------|----------|---|
| | Number. | Tons. | Number. | Tons. | Number. |
| July | 24 | 18,173 | ..... | ..... | 35 |
| August | 21 | 12,094 | ..... | ..... | 41 |
| September | 29 | 17,115 | 25 | 2,750 | 21 |
| October | 8 | 5,870 | 32 | 3,400 | 11 |
| November | 7 | 6,720 | 13 | 1,500 | 7 |
| December | 5 | 3,572 | ..... | ..... | 22 |
| January ..... | ..... | ..... | 1 | 150 | ..... |
| February ..... | ..... | ..... | 15 | 1,800 | ..... |
| March ..... | ..... | ..... | ..... | ..... | 13 |
| April | 7 | 2,373 | ..... | ..... | 34 |
| May | 39 | 22,795 | ..... | ..... | 30 |
| June | 35 | 20,575 | ..... | ..... | 37 |
| Total | 175 | 109,287 | 86 | 9,600 | 251 |

List of steam-vessels plying upon the Potomac River.

| Steam-boats. | Service. | Tug-boats. | Service. |
|--------------------------|------------------------|----------------------------|-------------------------|
| Excelsior | Washington to Norfolk. | Gilmore and Meredith | Towing on river. |
| George Leary | Do. | Samuel Gedney | Do. |
| Lady of the Lake | Do. | Fannie Gilbert | Do. |
| Jane Moseley | Do. | A. P. Gorman | Do. |
| Mattano | River landings. | G. W. Pride | Do. |
| T. V. Arrowsmith | Colonial Beach. | Ella Pearce | Do. |
| John W. Thompson | River landings. | D. M. Key | Do. |
| W. W. Coreoran | Mount Vernon. | Comet | Do. |
| Mary Washington | River View. | Mary Lewis | Do. |
| City of Alexandria | Alexandria. | Potomac | Do. |
| City of Washington | Do. | Templar | Do. |
| George Law | Do. | J. A. Jackson | Do. |
| Wakefield | River landings. | Henry Winship | Do. |
| Pilot Boy | Collingwood Beach. | Zeta | Do. |
| Florence | City View. | Hansom M. Key | Do. |
| Valley Forge | Upper river landings. | Hercules | Do. |
| Cecil | Do. | Samson | Do. |
| Dixey | Do. | Hattie | Do. |
| Sue | Baltimore. | Annie | Do. |
| Norfolk | Philadelphia. | Edwin D. Hartley | Do. |
| E. C. Knight | New York. | Keystone | Do. |
| John Gibson | Do. | J. H. Richard | Do. |
| | | Joe Blackburn | Police and harbor boat. |

Statement showing, by months, the arrivals of boats in harbor of Washington, together with specifications of cargoes carried during year ending June 30, 1888.

| Cargoes. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | June. | Total. |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Ice | 23 | 33 | 12 | 2 | 9 | 4 | ..... | 1 | ..... | 3 | 15 | 21 | 123 |
| Hard coal: | | | | | | | | | | | | | |
| Schooners | 19 | 41 | 18 | 14 | 10 | 2 | ..... | 1 | 1 | 11 | 25 | 13 | 155 |
| Barges | 39 | 60 | 47 | 46 | 48 | ..... | ..... | ..... | ..... | 22 | 30 | 41 | 333 |
| Lumber | 18 | 16 | 16 | 15 | 21 | 24 | 3 | 6 | 10 | 28 | 18 | 22 | 197 |
| Laths | 1 | 6 | 1 | 3 | 1 | ..... | ..... | ..... | 1 | ..... | 3 | 1 | 17 |
| Plaster | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | 2 |
| Soft coal | 66 | 135 | 143 | 45 | 48 | ..... | ..... | ..... | ..... | ..... | 9 | 30 | 476 |
| Cement | 1 | 1 | 3 | ..... | 1 | ..... | ..... | ..... | ..... | 3 | 2 | 1 | 12 |
| Stone | 4 | 1 | 4 | 3 | 1 | 1 | ..... | ..... | 1 | ..... | 2 | 1 | 18 |
| Gas-pipe | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | 2 |
| White sand | 2 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 15 | 9 | 4 | 35 |
| Guano | 4 | 3 | 2 | ..... | ..... | ..... | ..... | ..... | 1 | ..... | 1 | 1 | 12 |
| Melons | 28 | 124 | 30 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | ..... | 182 |
| Asphalt ..... | ..... | 3 | 4 | 1 | 2 | ..... | ..... | 1 | ..... | 1 | 1 | 3 | 16 |
| Wheat | 13 | 12 | 3 | 2 | ..... | ..... | ..... | ..... | ..... | 1 | 3 | 1 | 35 |
| Phosphate ..... | ..... | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5 |
| Brass guns ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Sweet potatoes ..... | ..... | 10 | 5 | 4 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 23 |
| Kinate ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Wood | 100 | 94 | 126 | 105 | 98 | 64 | ..... | 5 | 54 | 46 | 81 | 75 | 848 |
| Oysters ..... | ..... | ..... | 67 | 156 | 114 | 99 | 58 | 46 | 84 | 23 | ..... | ..... | 647 |
| Shingles ..... | ..... | 2 | 2 | 2 | ..... | 2 | ..... | ..... | 1 | 1 | 1 | 2 | 13 |
| Canned fruit ..... | ..... | 1 | 1 | 4 | ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | 7 |
| Hay ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Cocoa-nuts ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | 1 |
| Straw ..... | ..... | ..... | ..... | 2 | ..... | ..... | ..... | ..... | 2 | 2 | ..... | ..... | 6 |
| Salt ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | 1 | 1 | ..... | 3 |
| Hollow brick ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Oil ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | 2 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 437

Statement showing, by months, the material which composed cargoes of sailing vessels landing in the harbor of Washington during year ending June 30, 1888.

| Cargoes. | July. | August. | Septem-ber. | October. | Novem-ber. | Decem-ber. |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Ice.....tons.. | 21, 707 | 29, 426 | 10, 939 | 1, 927 | 8, 684 | 4, 361 |
| Hard coal: | | | | | | |
| Schooners.....do.... | 3, 071 | 6, 782 | 4, 053 | 3, 727 | 1, 643 | 489 |
| Barges.....do.... | 7, 752 | 12, 840 | 11, 920 | 9, 665 | 11, 215 | |
| Lumber.....feet.. | 1, 963, 000 | 1, 843, 000 | 1, 654, 000 | 2, 171, 000 | 2, 648, 000 | 2, 075, 000 |
| Laths.....number.. | 1, 386, 000 | 3, 693, 700 | 800, 000 | 5, 583, 900 | 1, 524, 600 | |
| Plaster.....barrels.. | 3, 000 | | | | | |
| Soft coal, boats.....tons.. | 7, 360 | 14, 684 | 15, 266 | 5, 020 | 4, 884 | 1, 000 |
| Cement.....barrels.. | 600 | 540 | 7, 501 | | 2, 000 | |
| Stone.....tons.. | 1, 040 | 150 | 1, 015 | 1, 023 | 280 | 375 |
| Gas-pipe.....do.... | 124 | | | | | |
| White sand.....bushels.. | 6, 000 | 10, 000 | | | | |
| Guano.....tons.. | 585 | 760 | 350 | | | |
| Melons.....number.. | 50, 925 | 197, 675 | 46, 113 | | | |
| Asphalt.....tons.. | | 1, 800 | 1, 490 | 423 | 901 | |
| Wheat.....bushels.. | 14, 785 | 14, 744 | 2, 608 | 2, 339 | | |
| Phosphate.....tons.. | | 1, 181 | | | | |
| Brass guns.....number.. | | 307 | | | | |
| Sweet potatoes.....barrels.. | | 1, 135 | 520 | 353 | 243 | |
| Kinate.....tons.. | | 250 | | | | |
| Wood.....cords.. | 3, 016 | 3, 229 | 3, 512 | 3, 064 | 2, 819 | 1, 562 |
| Oysters.....bushels.. | | | 22, 145 | 63, 100 | 54, 700 | 57, 686 |
| Shingles.....number.. | | 40, 000 | 478, 000 | 236, 000 | | 200, 000 |
| Canned fruit.....boxes.. | | 1, 600 | 2, 400 | 8, 120 | | |
| Hay.....bales.. | | | 75 | | | |
| Cocoa-nuts.....number.. | | | | | | |
| Straw.....bales.. | | | | 210 | | |
| Salt.....sacks.. | | | | | 1, 800 | |
| Hollow brick.....tons.. | | | | | 95 | |
| Oil.....barrels.. | | | | 250 | | |

| Cargoes. | January. | Feb-ruary. | March. | April. | May. | June. | Total. |
|------------------------------|----------|------------|-------------|-------------|-------------|-------------|--------------|
| Ice.....tons.. | | 1, 050 | | 2, 484 | 11, 570 | 27, 425 | 119, 575 |
| Hard coal: | | | | | | | |
| Schooners.....do.... | | 287 | 178 | 2, 264 | 4, 829 | 3, 492 | 30, 815 |
| Barges.....do.... | | | | 6, 620 | 6, 780 | 10, 500 | 77, 292 |
| Lumber.....feet.. | 500, 000 | 540, 000 | 1, 790, 000 | 1, 988, 000 | 1, 895, 000 | 2, 500, 000 | 21, 567, 000 |
| Laths.....number.. | | | 150, 000 | | 2, 450, 000 | 945, 000 | 16, 533, 200 |
| Plaster.....barrels.. | 3, 400 | | | | 2, 500 | | 8, 900 |
| Soft coal, boats.....tons.. | | | | | 950 | 3, 750 | 52, 864 |
| Cement.....barrels.. | | | | 9, 350 | 4, 000 | 3, 200 | 27, 191 |
| Stone.....tons.. | | | 400 | | 900 | 355 | 5, 538 |
| Gas-pipe.....do.... | | | 194 | | | | 318 |
| White sand.....bushels.. | | | | 20, 000 | 12, 530 | 2, 500 | 51, 030 |
| Guano.....tons.. | | | 90 | | 125 | 235 | 2, 145 |
| Melons.....number.. | | | | | | | 294, 713 |
| Asphalt.....tons.. | | 250 | | 400 | 350 | 1, 185 | 6, 799 |
| Wheat.....bushels.. | | | | 1, 186 | 2, 500 | 1, 250 | 39, 412 |
| Phosphate.....tons.. | | | | | | | 1, 181 |
| Brass guns.....number.. | | | | | | | 307 |
| Sweet potatoes.....barrels.. | | | | | | | 2, 251 |
| Kinate.....tons.. | | | | | | | 250 |
| Wood.....cords.. | | 159 | 1, 704 | 1, 394 | 2, 390 | 2, 300 | 25, 149 |
| Oysters.....bushels.. | 40, 000 | 22, 000 | 48, 000 | 9, 350 | | | 316, 981 |
| Shingles.....number.. | | | 100, 000 | 135, 000 | 150, 000 | 255, 000 | 1, 594, 000 |
| Canned fruit.....boxes.. | | | | 400 | | | 12, 520 |
| Hay.....bales.. | | | | | | | 75 |
| Cocoa-nuts.....number.. | | 13, 000 | | | | | 13, 000 |
| Straw.....bales.. | | | 196 | 150 | | | 556 |
| Salt.....sacks.. | | | | 665 | 1, 400 | | 3, 865 |
| Hollow brick.....tons.. | | | | | | | 95 |
| Oil.....barrels.. | | | 400 | | | | 650 |

U.

REPORT OF THE CHIEF ENGINEER OF THE FIRE DEPARTMENT.

WASHINGTON, *June 30, 1888.*

GENTLEMEN: I have the honor to submit my third annual report since my incumbency, showing in detail the operations of the department for the fiscal year ending June 30, 1888.

OFFICERS OF THE DEPARTMENT.

Joseph Parris, chief engineer; Louis P. Lowe, assistant chief; William T. Belt, assistant chief; William O. Drew, fire marshal; Joseph Sands, clerk.

ENGINE-HOUSES.

There are seven engine-houses and two truck-houses used by the department, all in good condition with the exception of Nos. 2 and 4, and the same objections exist as was set forth in my previous report.

The rapid growth of that section of the city in the neighborhood of No. 2 engine-house necessitates, in my opinion, more adequate means and greater appliances for the suppression of fires and saving life. I therefore repeat my recommendation for either a double house for use of No. 2 company and a truck company, or retain the present No. 2 house and purchase a site for the building of a truck-house sufficiently large to accommodate such a company with full equipments. A glance at the vast interests at stake in the location described will convince the most skeptical that the re-enforcements are needed.

At the recent session of Congress provision was made for a new engine company in southeastern section of the city. Together with house and full equipments it fills a want that has long been desired by the department, the citizens living, and owners of property, in that part of the city.

DISCIPLINE.

The discipline during the year has been excellent, and with few exceptions has been of high order. The necessary duties of firemen in saving life and subduing fires require a rigid regard to rules, and it is absolutely essential that they should be enforced to the letter. If those governing the department are relaxed, or in any manner interfered with, trouble ensues, and their usefulness is seriously impaired.

PAY AND PROMOTIONS.

I would respectfully recommend that the salaries of the foremen and engineers be increased from \$1,000 to \$1,100 and \$1,050, respectively. There never has been an increase in the pay of these two grades since

the organization of the department. • I also repeat my request for the promotion of ten privates to the rank of assistant foremen, with a salary of \$900 per annum each, and ten privates to the rank of assistant hostlers, at a salary of \$840 each. The assistant foreman in the absence of the foreman has to assume all the responsibilities, and in my opinion the promotion and increase of pay is no more than just, in consideration of additional services.

FOREMAN FOR NEW COMPANY.

I would recommend that a foreman be appointed for the new company located on Capitol Hill. Congress failed to make provision for such in its appropriation for said company.

EXCHANGE OF ENGINES.

There are in the department two old-style engines of small capacity that could be profitably exchanged for two new improved engines, and I respectfully recommend that the sum of \$8,000 be appropriated for the purpose of effecting the exchange; this amount is included in the estimates.

WATCHMEN.

I respectfully recommend that two additional watchmen be provided for in addition to the four already employed. There are two privates in the department, partly disabled from long service; one of them was recently examined by the board of surgeons, and found to be totally unfit for active fire duty, and it is desired for the efficiency of the service that strong active men should take their places, and they be appointed to the above position, as a recognition of past service.

CHEMICAL ENGINE.

I would respectfully recommend that a large size chemical engine be purchased, to be located in the center of the city, and accommodations be made for it in the building required for a truck company, should such be favorably considered, which I earnestly request will be, as I deem it of the utmost importance.

ALTERING HOSE CARRIAGES.

I also recommend that the old-style hose carriages be altered to crane-neck, for the better efficiency of the service; it can be done at a small expense, and it will obviate the necessity in the near future of purchasing new carriages.

FIRE-ESCAPE LAW.

I would respectfully request that the attention of Congress be called to the defect in the fire-escape law, as parties who should be made to erect them are neglecting to do so on account of the law being defective.

ADDITIONAL PRIVATES.

I have the honor to repeat my recommendation that two additional privates be appointed to each engine company and one to each truck

company, thereby making the number to each company twelve men instead of ten, as at present. The addition of these men I consider necessary for the more effectiveness of the department.

RELIEF FUND.

In renewing my recommendation for this fund, which has been urged by my predecessor as well as myself in every annual report for years, I again call attention to the need of some means by which it can practically be made a "relief fund." At present \$1 per month is deducted from the pay of each officer and man in the department, which is placed to the credit of the fund. As there are only ninety-nine members it will be seen that after the payment of \$80 per month to the two pensioners now on the roll the balance \$19 per month goes but a very small way towards creating a reserve fund for the benefit of any member who may be disabled. From the nature of the service in which they are engaged accidents may occur at any moment that may disable them for life, and from the meager state of the reserve fund their chances for aid from that source is very slight.

I would respectfully recommend that the communication of Auditor Petty, of the District, addressed to the Commissioners, in reference to applying a certain amount of the fines collected for violating ordinances of the District for the benefit of the "firemen's relief fund," be favorably considered and presented.

APPLICATIONS.

During the year there were twenty-one applications for positions in the department; fifteen were reported as qualified by the board of surgeons, and five appointments were made.

RESIGNATIONS.

On the 5th of July Mr. Joseph W. Sands was appointed clerk for the department vice Mr. Smith Thompson. Veterinary Surgeon Alex. McKenzie resigned May 1, and Mr. C. B. Robinson was appointed to fill the vacancy. Foreman George Spillman and Private John W. Sorrell resigned, the former September 10, the latter April 1.

PROMOTIONS AND DISMISSALS.

The following members were promoted: Privates A. J. Sullivan, J. D. Kurtz, and Charles Boss to be foremen, W. E. Leeman to be engineer, and T. M. Robinson to be fireman.

Two members of the department were dismissed.

CASUALTIES.

Watchman James H. Smith died January 19, 1887. Messrs. Thomas Sullivan, Niland, Robinson, and Hyland, members of the department, were injured whilst serving at fires. All, with the exception of Hyland, were not seriously injured. The latter was very badly hurt at a fire at Heurich's brewery on the night of January 16; he was unable until July 1 to perform duty of any description, and at present is only able to do such as is of a very light character.

HORSES.

The stock belonging to and in use by the department consists of forty-five horses. Three were condemned and turned over to the property clerk, one died, and eight purchased. They are distributed as follows:

| | |
|-----------------------------|----|
| Seven engine companies..... | 28 |
| Two truck companies | 6 |
| Two supply wagons..... | 2 |
| Used by officers | 4 |
| Extras | 5 |
| Total..... | 45 |

The horses designated as extras are kept as substitutes in case of sickness or accidents. Quite a large number of horses in the department are scarcely fit for service; they are old, and as a general thing used up, and require to be replaced by new ones.

VETERINARY SURGEON'S REPORT.

WASHINGTON, D. C., September 4, 1888.

SIR: I have the honor to present to you my annual report as veterinarian to your department for fiscal year ending June 30, 1888.

During the past winter and spring, influenza being epidemic in this city, some of our horses were attacked with the disease. During its prevalence many of the horses suffered with sore throat, but all made good recoveries.

We have had a few cases of colic and a few cases of rheumatism. The other ailments have been found in the old horses of the department, and I may say here that there is a large number of horses now in the service which are unfit for Fire Department work, owing to their age and unsoundness. These horses have all been faithful servants and should be replaced as soon as possible. They will be found below marked as bad. The horses marked fair may last another year if the work of the department is light. Those marked good are fully fit for service, and I may say some of them are almost perfect horses.

| Engine house. | Good. | Fair. | Bad. |
|---------------|-------|-------|------|
| No. 1 | 3 | 1 | 1 |
| No. 2 | | 4 | 1 |
| No. 3 | 2 | | 2 |
| No. 4 | 2 | 3 | 1 |
| No. 5 | 3 | 2 | 1 |
| No. 6 | 4 | *1 | |
| No. 7 | 3 | 1 | 1 |
| Truck A | 3 | 1 | |
| Truck B | 2 | 2 | 1 |

* Chief horse.

So that we have in all forty-five horses in the department, only twenty-two of which are in good condition, fifteen are fair, and eight are unfit for service.

I have the honor to be, sir, your obedient servant,

C. B. ROBINSON, V. S.,
Veterinarian to District of Columbia.

JOSEPH PARRIS, Esq.,
Chief Engineer Fire Department.

FIRE PROTECTION FOR MOUNT PLEASANT AND HOWARD UNIVERSITY.

The above sections are sadly in need of water facilities; in case of fire, from the inflammable nature of the buildings it would be next to an impossibility for the department to render any great assistance. I therefore recommend that the water-mains be extended out Seventh street,

embracing these two sections; also that they be included in the fire-alarm circuit.

Also that water-mains be extended out Thirty-second street, West Washington, for the distance of four blocks. The improvements in this neighborhood, in my judgment, should have such protection.

APPARATUS.

The apparatus of the department consists of nine engines, seven in service and two in reserve; nine hose carriages, having been increased by the purchase of a new one, seven in service and two in reserve; three fuel wagons, two new ones having been added during the year, two in service and one in reserve, it being old and in bad condition; three hook and ladder trucks, two in service, one old with no appliances; one truck and three hose carriages have been thoroughly overhauled, rebuilt, and painted. Attached to each truck are two 15-gallon, and to hose carriage of No. 2 two 3-gallon, Holloway's fire extinguishers. It has also added amongst the appliances two Empire life-saving nets and four life saving belts, both of which have been used very successfully as a means of saving life in most of our large cities. One wagon for use of the chief engineer, one wagon for use of the fire marshal, one wagon each for use of the assistant chief engineers.

HOSE.

On hand and in service of the department :

| | Feet. |
|--|-------|
| Paragon hose, in good condition..... | 5,100 |
| Paragon hose, in fair condition..... | 5,500 |
| Boston fire jacket, in good condition..... | 3,350 |
| Boston fire jacket, in fair condition..... | 1,000 |
| Gum hose, in good condition..... | 200 |
| Different kinds, unfit for service..... | 2,500 |

Turned over to the property clerk condemned as unfit for service, 5,050 feet. There was purchased for use of the department during the year the following :

| | Feet. |
|----------------|-------|
| Paragon..... | 2,000 |
| Bay State..... | 1,200 |
| Gum..... | 150 |

Which was distributed to the following engine companies :

| | Feet. |
|---|-------|
| Engine Company No. 1, paragon hose..... | 1,000 |
| Engine Company No. 2, paragon hose..... | 1,000 |
| Engine Company No. 4, Bay State hose..... | 600 |
| Engine Company No. 6, Bay State hose..... | 600 |
| Engine Company No. 9, gum hose..... | 150 |

Hose on hand end of fiscal year June 30, 1888.

| Engine Company. | | Good | Fair | Bad |
|-----------------|-------|-------|-------|-------|
| No. | Feet. | Feet. | Feet. | Feet. |
| No. 1 | 1,400 | 750 | 650 | 0 |
| No. 2 | 1,200 | 600 | 600 | 0 |
| No. 3 | 1,200 | 1,200 | 0 | 0 |
| No. 4 | 1,700 | 700 | 1,000 | 0 |
| No. 5 | 1,500 | 600 | 900 | 0 |
| No. 6 | 2,200 | 1,200 | 1,000 | 0 |
| No. 7 | 1,200 | 1,200 | 0 | 0 |
| Total | | 8,900 | 6,350 | 0 |

Statement of number of alarms, working hours of engines, ladders raised, etc.

| Companies. | First alarms. | Second alarms. | Special alarms. | General alarms. | Hours engines worked. | Local alarms. | Hose laid. | Hose burst. | Ladders raised. | No. times extinguishers used. | Transfers. |
|------------------|---------------|----------------|-----------------|-----------------|-----------------------|---------------|--------------|--------------|-----------------|-------------------------------|------------|
| Engine Company : | | | | | <i>h. m.</i> | | <i>Feet.</i> | <i>Feet.</i> | <i>Feet.</i> | | |
| No. 1 | 93 | 2 | | | 26 45 | 10 | 19,900 | 50 | 82 | | |
| No. 2 | 79 | | | | 30 14 | 29 | 17,200 | 250 | 84 | | |
| No. 3 | 64 | | | 1 | 11 35 | 10 | 10,100 | 400 | 12 | | 1 |
| No. 4 | 55 | | 1 | 2 | 16 10 | 14 | 9,200 | 150 | 60 | | |
| No. 5 | 43 | | | 2 | 22 31 | 8 | 10,900 | 50 | 12 | | |
| No. 6 | 98 | 3 | | | 20 45 | 22 | 13,800 | 200 | | | |
| No. 7 | 66 | 2 | 1 | 2 | 18 35 | 16 | 10,800 | 100 | | | 3 |
| Truck Company : | | | | | | | | | | | |
| A | 99 | 1 | | | | 1 | | | 1,477 | 3 | |
| B | 76 | 1 | | 2 | | 9 | | | 948 | 12 | |

Total number of alarms, etc., during the year ending June 30, 1888.

[Engines worked 148 hours.]

| | |
|--------------------------------|--------|
| Responded to— | |
| Fire alarms | 174 |
| Local alarms | 108 |
| Hose laid | 91,400 |
| Hose burst | 1,100 |
| Ladders raised | 2,653 |
| Times extinguishers used | 14 |
| Transfers | 4 |

Description of steam fire engines and trucks.

| Style of engine. | Built by— | Placed in service— | Weight, as drawn to fires. | Cylinder. | Pump. | Gallons per minute. |
|---|---------------------|--|----------------------------|--------------|--------------|---------------------|
| <i>Engines.</i> | | | <i>Lbs.</i> | <i>Inch.</i> | <i>Inch.</i> | |
| Number 1.. Double upright crane neck ; piston. | Amoskeag Co | Dec. 9, 1886 | 8,200 | 6½ by 8 | 4½ | 700 |
| Number 2.. Double horizontal straight frame ; piston. | Clapp & Jones.... | June 24, 1879 | 8,700 | 8 8 | 4½ | 700 |
| Number 3.. Single horizontal straight frame ; piston. |do | Nov. 25, 1884 | 5,910 | 8 8 | 4½ | 450 |
| Number 4.. Crane neck ; rotary... | Selby's Co..... | Sept. 9, 1879 | 7,250 | 11 5½ | 7½ | 600 |
| Number 5.. Single horizontal straight frame ; piston. | Clapp & Jones.... | Nov. 17, 1883 | 5,690 | 8 8 | 4½ | 450 |
| Number 6.. ..do |do | Jan. 19, 1876 | 6,850 | 9 8 | 5½ | 550 |
| Number 7.. ..do |do | Jan. 17, 1885 | 6,045 | 8 8 | 4½ | 450 |
| Reserve 1.. ..do |do | Jan. 10, 1879 | 7,800 | 11 8 | 6 | 700 |
| Reserve 2.. ..do |do | Nov. 25, 1884 | 5,910 | 8 8 | 4½ | 450 |
| <i>Trucks.</i> | <i>Ladders.</i> | | | | | |
| A | 9 (244 feet) | Buckley & Merritt | Feb. 26, 1879 | 9,000 | | |
| B | 11 (280 feet) | Babcock Manu-
facturing Com-
pany. | Mar. 19, 1877 | 9,000 | | |

Location of engine and truck houses.

| | |
|-----------------|--|
| Engine company: | |
| No. 1..... | K street between Sixteenth and Seventeenth streets northwest. |
| No. 2..... | D street between Twelfth and Thirteenth street northwest. |
| No. 3..... | Delaware avenue and C street northeast. |
| No. 4..... | Virginia avenue between Four-and-a-half and Sixth streets southwest. |
| No. 5..... | M street between Thirty-first and Potomac, West Washington. |
| No. 6..... | Massachusetts avenue between Fourth and Fifth streets northwest. |
| No. 7..... | R street between Ninth and Tenth streets northwest. |
| Truck Company: | |
| A..... | North Capitol between B and C streets northeast. |
| B..... | New Hampshire avenue and M street northwest. |

EXPENDITURES.

The expenditures for the department, as per books of the auditor of the District of Columbia for the year ending June 30, 1888, were as follows:

| | |
|--|-------------|
| Salaries..... | \$85,345.10 |
| Repairs to engine-houses..... | 1,996.45 |
| Repairs to apparatus and new appliances..... | 2,411.06 |
| Hose..... | 2,650.00 |
| Purchase of horses..... | 2,000.00 |
| Fuel..... | 1,705.36 |
| Forage..... | 3,812.78 |
| Contingent expenses..... | 5,484.72 |
| Total..... | 105,703.47 |

Salaries of officers and employes.

| | No. | \$100. |
|-------------------------------|-----|--------|
| Officers and employes. | | |
| Chief engineer..... | 1 | 8,000 |
| Assistant chief engineer..... | 2 | 1,200 |
| Fire marshal..... | 1 | 1,000 |
| Clerk..... | 1 | 500 |
| Foremen..... | 1 | 1,000 |
| Engineers of steamers..... | 1 | 1,000 |
| Tellermen..... | 1 | 500 |
| Hosiers..... | 1 | 800 |
| Firemen..... | 1 | 800 |
| Privates..... | 1 | 500 |
| Watchmen..... | 3 | 600 |
| Veterinary surgeon..... | 1 | 400 |
| Total..... | 15 | 15,000 |

FIRE-PLUGS.

The total number of fire-plugs in the District at present is not more than 850, which is insufficient for protection from fire. I respectfully recommend that the addition of at least 1,000 is necessary, they to be located in suitable places, as our lead of hose in the heart of the city on an average is about 700 feet.

Loss of claims for fire from 1880 to 1888: number of buildings and population in 1880 and 1888.

| Year. | Buildings | Population |
|----------------------------|-----------|------------|
| 1880..... | 100 | 25,000 |
| 1881..... | 100 | 25,000 |
| 1882..... | 100 | 25,000 |
| 1883..... | 100 | 25,000 |
| 1884..... | 100 | 25,000 |
| 1885..... | 100 | 25,000 |
| 1886..... | 100 | 25,000 |
| 1887..... | 100 | 25,000 |
| 1888..... | 100 | 25,000 |
| Total..... | 850 | 25,000 |
| Increase in ten years..... | 850 | 4,362 |

Annexed will be found a statement of the fire marshal, William O. Drew, in relation to storage and grade of illuminating oils, etc.; also, detailed statement of fires, losses, and insurance for the year ending June 30, 1888.

There were 174 alarms for fire and 108 local or still alarms; the estimated loss entailed was \$68,446, covered by an insurance of \$53,927, against a loss of \$298,639, covered by an insurance of \$241,164, of the previous fiscal year.

In conclusion I beg to return thanks to the Commissioners for the uniform courtesy at all times extended me, also to my two assistant chiefs and the officers and men under their command; to the major, officers, and members of the police force; to the superintendent of the fire alarm, etc., and the operators connected with the office, all of whom have rendered valuable service, making it easier for me to fulfill the various and important duties intrusted to me.

Very respectfully,

JOSEPH PARRIS,
Chief Engineer, Fire Department.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

U 1.—INVENTORY OF COMPANIES.

GENTLEMEN: I most respectfully submit a list of the property of the several engine and truck companies to the 1st of July, 1888.

JOSEPH PARRIS,
Chief Engineer Fire Department.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

ENGINE COMPANY No. 1.

One two-story brick house, with heater-house, hose-tower, and stable, located on K street between Sixteenth and Seventeenth northwest.

ENGINEER DEPARTMENT.

1 double-pump Amoskeag engine.
1 heater and pipes.
1 suction strainer.
1 Prunty relief valve.
2 brass lanterns.
1 jack-screw.
1 slice-bar.
1 reducer.
20 feet suction hose.
1 tool-box and fixtures.
1 patent engine lighter.
2 monkey-wrenches.
2 shovels.
2 squirt cans.
1 oil-can.
1 plug thawer.
6 chisels.
1 vise.
2 pairs pliers.

1 gum bucket.
1 screw-driver.
3 gas-tongs.
1 brace and bits.
4 gallons oil.
2 lanterns.
2 pipes and nozzles.
1 pole and double-trees.
2 wheels, pole, and double-trees.
1 old coupling.
2 extra engine grates.
1 grate for heater.
1 lead bar.
1 chamois skin.
1 scoop-shovel.
1 square.
2 blind caps.
1 wooden bucket.
1 cord split pine wood.

ENGINE COMPANY No. 1—Continued.

ENGINEER DEPARTMENT—continued.

| | |
|------------------------------|----------------------------|
| 6 files. | 2 extra engine wheels. |
| 2 plug keys. | 4 sight gauges. |
| 2 hammers. | 1 gum goose-neck. |
| 15 gallons coal oil. | 1 leather goose-neck, old. |
| 1 flue brush. | 1 hack saw. |
| 1 pair dividers. | 1 sponge. |
| 1 pair calipers. | 1 ax. |
| 20 feet hose, three-fourths. | 1 tin box. |
| 2 tons red-ash engine coal. | 1 pound gum packing. |
| 5 tons engine coal. | 2 pounds Selden's packing. |
| 6 feet extra suction. | 2 pounds asbestos packing. |

HOSE-CARRIAGE DEPARTMENT.

| | |
|---|-------------------------|
| 1 4-wheel hose-carriage, in good condition. | 1 oil-can, 2 sponges. |
| 1,400 feet Paragon hose, good. | 2 chamois skins. |
| 500 feet Paragon hose, fair. | 24-foot ladder. |
| 250 feet Bay State hose, fair. | 2 Johnson's pumps. |
| 100 feet Bay State hose, bad. | 1 scabbard and belt. |
| 200 feet life line. | 2 covered copper pipes. |
| 100 feet picket line. | 8 plug keys. |
| 2 pickaxes. | 2 reducers. |
| 2 cut-off nozzles and 8 tips. | 1 ceiling hook. |
| 1 ladder clamp. | 1 leather pipe. |
| 2 Wonder ladder fire-escapes. | 1 crowbar. |
| 6 hose spanners. | 5 assorted straps. |
| 1 wooden pipe-holder. | 1 trace strap, extra. |
| 30 feet extra rope. | 1 pole snap. |
| 1 reflecting lamp. | 3 ladder straps. |
| 2 bit snaps. | 20 gum washers. |
| 2 rein snaps. | 50 feet rope and block. |
| 1 gum bucket. | 1 whip. |
| 100 feet garden hose. | 1 canvas apron. |
| 1 jack-screw and wrench. | 1 extra pole. |
| 1 stove and pipe. | 1 wooden pipe-holder. |
| 4 extra hose-carriage wheels. | 1 corn broom. |
| 1 cotton duster. | 1 blind cap. |
| 2 lead bars. | 1 wooden bucket. |
| 8 cut-off nozzles, 2 wrenches. | |

HOSTLER DEPARTMENT.

| | |
|---------------------------------------|-----------------------------|
| 3 horses in good condition. | 2 scrapers. |
| 1 horse in bad condition. | 1 pitchfork. |
| 2 double sets swinging harness, good. | 4 sets reins. |
| 2 double sets swinging harness, fair. | 2 scoop-shovels. |
| 1 breast-collar, old. | 1 flat shovel. |
| 2 pitchforks. | 2 mane brushes. |
| 3 brooms. | 2 horse brushes. |
| 1 pair horse clippers, good. | 2 curry-combs. |
| 1 pair horse clippers, bad. | 25 bushels oats. |
| 1 pair scissors. | 1,000 pounds hay and straw. |
| 2 horse-cloths. | 2 wooden buckets. |
| 4 horse-blankets, good. | 2 saddles, bad. |
| 3 horse-blankets, bad. | 1 saddle, good. |
| 8 snaps. | 4 pole straps, good. |
| 8 halter stems. | 1 harness punch. |
| 6 hitching-straps. | 2 whips. |
| 4 bridles, good. | 1 sifter. |
| 4 bridles, bad. | 1 horse boot. |
| 4 linen horse-covers. | 1 singeing iron. |
| 1 block and 50 feet rope. | 3 sponges. |
| 1 platform-scales. | 2 pairs driving gloves. |
| 8 old snaps. | 1 oat cleaner. |

ENGINE COMPANY No. 1—Continued.

HOUSE DEPARTMENT.

| | |
|--|---------------------------|
| Trips for releasing horses, Schneider's. | 1 gong. |
| 2 carpets, good. | 10 iron bedsteads. |
| 1 carpet, bad. | 20 bed-spreads. |
| 20 sheets. | 20 pillow-slips. |
| 12 towels. | 18 spittoons. |
| 10 hair mattresses. | 10 cane-seat chairs. |
| 22 double blankets, good. | 12 wooden chairs. |
| 25 double blankets, fair. | 12 feather pillows. |
| 9 old chairs. | 1 oil-cloth, old. |
| 1 feather duster. | 2 dust pans and brushes. |
| 1 hair brush and comb. | 3 looking-glasses. |
| 2 door mats. | 1 step-ladder. |
| 2 buckets. | 22 stair-rods. |
| 3 brooms. | 2 clocks. |
| 1 book-case, 8 pictures. | 4 tables and 1 cover. |
| 2 rugs, 7 window-shades. | 1 lounge, old. |
| 1 writing-desk, etc. | 1 telephone. |
| 1 water-cooler. | 1 stove and pipe. |
| 2 mops; 1 coal-hod and shovel. | 2 whitewash brushes. |
| 1 brush, 2 tin cups. | 10 rules and regulations. |
| 10 fire alarms and 10 latch-keys. | 3 benches. |
| 1 bath-tub, etc. | 2 chamois skins. |
| 2 straps and snaps. | 1 alarm bell. |
| 2 floor-brushes. | 1 map. |
| 4 sponges. | 1 watering-can. |

STORE-ROOM DEPARTMENT.

| | |
|---------------------------------|-----------------------------------|
| 6 pounds cotton waste. | 1 gum bucket. |
| 3 pounds rotten-stone. | 2 pairs hangers. |
| 6 hose spanners. | 2 oil-cans. |
| 1 harness punch. | $\frac{1}{2}$ dozen mop-handles. |
| 2 leather-covered bits. | 5 pounds copper wire. |
| 2 dust-pans. | $\frac{1}{2}$ dozen iron pulleys. |
| $\frac{1}{2}$ gallon arnica. | 4 spittoons. |
| 1 stove brush. | 2 water-guages, old. |
| 2 pounds copper rivets. | 2 funnels. |
| $\frac{1}{2}$ dozen blacking. | 2 papers polish. |
| 10 pounds Babbit's soap. | 24 papers tripoli. |
| 4 pounds harness soap. | 2 curry-combs. |
| 3 cotton mops. | 48 sheets emery cloth. |
| 1 corn broom. | 1 pick-ax and shovel. |
| 1 pound axle-grease. | 5 chamois skins. |
| 10 bit straps. | 10 pounds kalsomine. |
| 4 pounds sash cord. | 2 papers tacks. |
| 2 scoop shovels. | 1 gross screws. |
| 1 pitchfork. | 4 rein-snaps. |
| 4 pole-snaps. | 4 bit-snaps. |
| 1 lamp-cup. | 4 horse-cloths. |
| 2 coal hods. | 3 horse-brushes. |
| $\frac{1}{2}$ dozen files. | 2 horse-scrapers. |
| 2 lamp-globes. | 5 pounds sponge. |
| 2 pounds castile soap. | 5 pounds nails. |
| 1 broom. | 1 pound oxalic acid. |
| 2 parade whips. | 2 pounds vasaline. |
| $\frac{1}{2}$ pound wire nails. | 2 iron bedsteads and springs. |
| 1 box polish. | 2 dust-brushes. |
| 3 pounds toilet soap. | 2 floor-brushes. |
| 6 pounds stable soap. | 1 gallon raw oil. |
| 2 cans harness dressing. | 3 pounds leather. |
| 3 cans harness oil. | 2 brushes. |
| 2 shoe brushes. | 3 ax-handles. |
| 4 shoe straps. | 8 bulwinkle snaps, old. |
| 10 pounds whiting. | 3 planes. |
| 3 horse-buckets. | 2 saws and square. |

ENGINE COMPANY No. 1—Continued.

STORE-ROOM DEPARTMENT—continued.

| | |
|-------------------------------------|---------------------|
| 1 wheelbarrow. | 9 wood bits. |
| 2 cushions. | 1 square. |
| 1 lot old rope. | 1 drawing-knife. |
| 1 compass saw. | 10 screw eye-hooks. |
| $\frac{1}{2}$ dozen chisel handles. | 1 grindstone. |
| 1 brace and bit. | 1 glue-pot. |
| 4 door springs. | 1 oil-stove. |
| 1 hatchet. | 1 mallet. |
| 4 old lamps. | 2 thumb gauges. |
| 1 fender. | 6 chisels. |
| 1 pair pliers. | 1 spoke shave. |
| 1 rivet set. | 1 iron bench-screw. |

Members of No. 1 engine company.

| Name. | Position. | Age. | Occupation. | Residence. |
|----------------------------|---------------------|------|------------------|---------------------------------------|
| Charles S. Boss | Foreman | 37 | Laborer | 1926 K street northwest. |
| John A. Welch | Asst. foreman | 29 | Brickmaker | 1113 Nineteenth street northwest. |
| William A. Shedd | Engineer | 46 | Machinist | 2204 I street northwest. |
| William French | Fireman | 45 | Laborer | 2402 K street northwest. |
| Samuel E. Edwards | Hostler | 41 | Blacksmith | 2202 I street northwest. |
| James Kenny | Private | 33 | Butcher | 1131 Eighteenth street northwest. |
| John B. Clark | do | 31 | Carpenter | 1133 Eighteenth street northwest. |
| William H. Bradekamp | do | 34 | Laborer | 1215 New Hampshire avenue north-west. |
| Samuel E. Masten | do | 32 | Plasterer | 611 Twenty-third street northwest. |
| William M. Caton | do | 33 | Laborer | 3320 M street northwest. |

ENGINE COMPANY No. 2.

One two-story brick house, hose tower attached, located on D street, between Twelfth and Thirteenth streets, northwest.

ENGINEER DEPARTMENT.

| | |
|---|-------------------------------|
| 1 double Clapp & Jones engine and heater in good condition. | 20 pounds cotton waste. |
| 3 extra engine wheels. | 2 brass play-pipes. |
| 3 stuffing-box wrenches. | 3 pounds oxalic acid. |
| 2 pieces gum sleeve, bad. | 2 blue brushes. |
| 1 piece canvas sleeve, bad. | 5 tons coal. |
| 1 extra pole and single-tree. | 1 gum bucket. |
| 1 cold chisel. | 1 Owens hose connector. |
| 1 lever vise and bench. | 3 blind caps. |
| 2 dozen tripoli. | 8 smoke tubes. |
| 2 heater cocks. | 2 diamond wrenches. |
| 20 feet 4-ply steam-hose. | 9 feet canvas suction sleeve. |
| 1 shovel and slice bar. | 1 jack-screw. |
| 1 plug key. | 2 pounds packing. |
| 7 assorted files. | 2 hammers. |
| 10 drop-tubes. | 1 dozen emery cloth. |
| 3 monkey wrenches. | 1 dozen crocus cloth. |
| 15 feet gum suction sleeve. | 4 nozzles. |
| 1 patent lighter. | 10 feet steam-hose. |
| 1 old goose-neck. | 3 reducers. |
| 1 set Gould packing. | 1 injector. |
| | 1 Prunty relief valve. |

HOSE DEPARTMENT.

| | |
|--|--------------------|
| 1 new "Preston" crane-neck hose-carriage, with two "Holloway" 3-gallon fire-extinguishers. | 2 ladder-straps. |
| 2 pick-axes. | 1 gum bucket. |
| 1 crow-bar. | 100 feet rope. |
| | 100 feet line. |
| | 1 reflecting lamp. |

ENGINE COMPANY No. 2—Continued.

HOSE DEPARTMENT—continued.

| | |
|-------------------------------|-----------------------|
| 1 jack. | 1 Brooks fire-escape. |
| 1,150 feet good paragon hose. | 4 nozzle-tips. |
| 600 feet fair paragon hose. | 10 spanners. |
| 300 feet bad paragon hose. | 2 spool-cranks. |
| 150 feet gum hose, good. | 1 monkey-wrench. |
| 50 feet gum hose, bad. | 2 Ashworth nozzles. |
| 2 wrenches. | 1 hose hoister. |
| 1 saw and auger. | 2 pipe-holders. |
| 1 hose-holder. | 1 ax. |
| 1 Johnson pump. | 1 plaster-hook. |
| 2 metal play-pipes. | 1 bell. |

HOSTLER'S DEPARTMENT.

| | |
|---|---------------------------|
| 5 horses in fair condition. | 4 choke-straps. |
| 2 sets double swinging-harness, good condition. | 5 linen blankets. |
| 2 sets swinging-harness, double, in fair condition. | 1 water-bucket. |
| 1 set single harness. | 5 iron troughs. |
| 9 halter stems. | 2 brushes. |
| 4 collar-pads. | 400 pounds hay and straw. |
| 9 horse-blankets. | 8 good bridles. |
| 1 oat-cleaner. | 5 old bridles. |
| 4 pitchforks. | 3 pair hitching-straps. |
| 2 curry-combs. | 1 shovel. |
| 4 whips. | 4 trace-springs. |
| 2 saddles. | 2 brass horse-scrapers. |
| | 20 bushels oats. |

STORE-ROOM.

| | |
|-----------------------------|---------------------------|
| 53 sheets. | 2 ax-handles. |
| 21 bed-spreads. | 1 ceiling brush. |
| 2 hand-saws. | 12 cotton mops. |
| 4 curry-combs. | 1 life-line. |
| 1 mane-comb. | 5 charges extinguishers. |
| 3 horse-brushes. | 1 pint arnica. |
| 2 cans of harness dressing. | 2 pliers. |
| 7 boxes blacking. | 1 whip. |
| 2 hanks sash cord. | 4 line-snaps. |
| 1 pound copper rivets. | 17 small snaps. |
| 1 Johnson pump. | 2 putty-knives. |
| 1 whisp broom. | 10 towels. |
| 1 sheet gum. | 1 brace. |
| 2 sheets asbestos. | 2 blacking brushes. |
| 3 mop handles. | 2 combs and brushes. |
| 3 swinging collars. | 4 lamps. |
| 1 dust-pan. | 21 pounds castile soap. |
| 13 expansion rings. | 6 toilet soap. |
| 6 hame-straps. | 1 water-gauge. |
| 2 hose-straps. | 1 gross matches. |
| 2 dies. | 1 pound Silver Lake cord. |
| 1 large picture-glass. | 11 sheets crocus cloth. |
| 17 pillow-slips. | 5 chamois skins. |
| 1 door-mat. | 1 dozen lamp-burners. |
| 27 large blankets, good. | 12 brooms. |
| 12 small blankets, fair. | 3 gallons l. oil. |
| 7 small blankets, fair. | 1 gas reflector. |
| 2 water brushes. | 1 crow-bar. |
| 1 dozen tripoli. | 1 trowel. |
| 5 balls wick. | 100 feet wire. |
| 1 gong and frame. | 6 bulwinkle snaps. |
| 1 dozen wicks. | 4 trace snaps. |
| 4 cups. | 1 dozen window-glass. |

ENGINE COMPANY No. 2—Continued.

HOUSE DEPARTMENT.

10 iron bedsteads
19 pillow slips.
10 towels.
1 writing desk
2 looking-glasses.
1 table cover.
2 clocks.
1 alarm gong.
1 set rules.
1 water cooler.
3 water buckets.
12 yards oil cloth, old.
10 spring mattresses.
10 pair mattresses.
10 feather pillows.
1 carpet, bad.
1 lounge.
24 arm-chairs.

1 comb and brushes.
1 drill gong.
4 stoves and pipe.
1 whisk broom.
5 brooms.
1 old mat.
19 sheets.
10 bed-spreads.
2 carpets.
1 book-case.
1 round table.
8 spittoons.
1 bath-tub, etc.
8 curtains.
2 maps.
2 brushes.
2 blacking brushes.
1 telephone.

MISCELLANEOUS.

6 old hose-carriage wheels.
1 old extra pole.
1 pair carriage shafts.
50 feet line.
1 fire-escape,
2 suction sleeve connections.
1 dictionary, etc.
3 0 feet three-quarter gum hose.
2 pair springs.
3 5-gallon oil cans.
7 old chairs.
1 old iron heater tank.
1 old oil pump.
1 barrel coal oil.
2 cotton dusters.
2 feather dusters.
1 marker.
2 old hose straps.
1 extra discharge.
2 chisels.
1 blind cap.
9 assorted tips.
5 nails.
1 square.
2 flour buckets.
 $\frac{1}{2}$ peck measure.
2 slates.
3 cotton mops.
4 books, etc.
10-foot chain.

1 reflecting lamp.
1 small forge.
1 grindstone.
1 copper water tank.
4 old smoke caps.
2 sets lead bars.
2 large globes.
6 small globes.
2 old brass lamps.
1 wrench.
1 platform scales.
6 traces.
4 pole-snaps.
2 old gum pipes.
1 reducer.
2 spray tips.
2 brass pipes.
1 old spring.
2 pipe holders.
1 old water gauge.
1 water gauge.
3 old spittoons.
1 sliding pole.
40 feet wire.
4 pole straps.
Lot old straps.
1 siamese.
3 marline.
5 hose couplings.
1 sponge.

Members of No. 2 Engine Company.

| Name. | Position. | Age. | Occupation. | Residence. |
|------------------------|-----------------|------|----------------------|---|
| John F. Maddox..... | Foreman | 51 | Wheelwright | 475 I street northwest. |
| James Moriarty | Engineer | 50 | Machinist | 2113 K street northwest. |
| Thomas M. Robinson .. | Fireman | 25 | Brass-finisher | 1610 Fifth street northwest. |
| Frank Jacobs | Hostler | 36 | Driver | 1439 Ohio avenue northwest. |
| Joseph Lenman | Asst. Foreman.. | 32 | Blacksmith | 938 E street northwest. |
| Rudolph Ball | Private | 40 | Undertaker..... | 1111 F street northwest. |
| William Doleman..... | do | 29 | Laborer | 1235 C street southwest. |
| Henry Smart | do | 23 | do | 1202 E street northwest. |
| Charles R. Kuhns | do | 24 | Butcher | 300 Four-and-a-half street south
west. |
| John L. Martin | do | 21 | Laborer | 475 I street northwest. |

ENGINE COMPANY No. 3.

One two-story brick house, located on Delaware avenue between D and C streets northeast, owned by the United States Government.

ENGINEER DEPARTMENT.

| | |
|---|----------------------|
| 1 Clapp & Jones, single-piston engine, in good condition. | 2 chamois skins. |
| 1 Prunty relief valve. | 4 tons splint coal. |
| 1 pair dividers. | 3 reducers. |
| 4 wrenches. | 2 wooden buckets. |
| 3 monkey wrenches. | 1 reflecting lamp. |
| 1 set heater connections. | 1 coal hod. |
| 2 fenders. | 10 feet steam hose. |
| 1 old vise and bench. | 3 tips. |
| 1 new vise and bench. | 1 cushion. |
| 20 feet steam hose. | 2 hose spanners. |
| 3 gallons lard oil. | 2 tons furnace coal. |
| 4 lamps. | 5-gallon oil can. |
| 2 hammers. | 3-gallon oil can. |
| 6 leather jackets. | 1 slice bar. |
| 2 old shovels. | 5 small oil cans. |
| 2 brass pipes. | 1 jack. |
| 1 whip. | 1 set lead bars. |
| 1 hand saw. | 1 brass lamp. |
| 1 screw driver. | 1 Prunty heater. |
| 2 spanners sleeve. | 4 chisels. |
| 1 set sleeve couplings. | 2 gallon oil can. |
| 1 shovel. | 2 old oil cans. |
| 1 feather duster. | 1 gum bucket. |

HOSE-CARRIAGE DEPARTMENT.

| | |
|---|------------------------------|
| 1 four-wheel hose carriage in good condition. | 2 chamois skins. |
| 700 feet Bay State hose, good. | 2 wheels. |
| 1,250 feet paragon hose, fair. | 1 axle wrench. |
| 50 feet paragon hose, good. | 2 wooden buckets. |
| 700 feet paragon, bad. | 1 gum bucket. |
| 1 drill gong. | 5 old spittoons. |
| 3 reducers. | 2 leather holders. |
| 24-foot ladders. | 1 coal hod. |
| 200 feet life line. | 1 wooden pipe holder. |
| 2 old brass lamps. | 3 old stoves and pipe. |
| 2 door mats. | 2 dozen gum gaskets. |
| 10 spanners. | 1 old water cooler. |
| 1 old monkey-wrench. | 4 hatchets, belts, etc. |
| 1 ceiling hook. | 2 old hose jackets. |
| 1 stove and pipe. | 1 old Prunty nozzle, 4 tips. |
| 1 bell and frame. | 1 Little fire-escape. |
| 4 gum pipes. | 1 reflecting lamp. |
| 1 spool strap. | 2 sponges. |
| 2 hair brooms. | 2 Johnson pumps. |
| 1 gas lighter. | 2 aprons. |
| 1 clock. | 1 spool snap and straps. |
| 4 window curtains. | 2 hose clamps. |
| 1 ax. | 1 sliding pole. |
| 1 jack. | 1 cushion and whip. |
| 1 Ashworth nozzle, 3 tips. | 1 feather duster. |
| 2 plug keys. | 100 feet line. |
| Box keys, etc. | 2 old singletrees. |
| | 1 old ladder. |

HOSTLERS' DEPARTMENT.

| | |
|--------------------------|--------------------------|
| 4 old hames and traces. | 4 sets swinging harness. |
| 2 old collars. | 4 new hitching-straps. |
| 4 old hames and traces. | 1 bridle, old. |
| 4 horses, 2 bad, 2 fair. | 2 horse scrapers. |

ENGINE COMPANY No. 3—Continued.

HOSTLER'S DEPARTMENT—continued.

4 old pole-snaps.
4 old halter-stems.
2 wooden buckets.
1 set scales.
1,000 pounds hay and straw.
2 rubbing cloths.
1 harness punch.
4 blankets.
4 blankets, old.
2 curry-combs.
2 sets old harness.
1 collar.
1 tin can.

1 feed-bin.
2 pitchforks.
2 mane brushes.
1 old strap and traces.
4 surcingles.
4 hoods, old.
2 brushes.
2 hitching-straps.
2 saddles.
2 corn brooms.
15 bushels oats.
1 shovel.
1 pair horse-clippers.

STORE-ROOM DEPARTMENT.

2 new rubbing-cloths.
12 cakes Babbitt's soap.
12 cakes toilet soap.
24 sheets crocus cloth.
1 feather duster.
1 plane.
2 files.
1 pair horse-clippers.
1 pair cal pers.
3 pounds sponge.
10 corn brooms.
4 hanks sash-cord.
1 comb and brush.
1 can harness dressing.
24 sheets emery-cloth.
8 globes.
6 lamp-burners.
2 curry-combs.
5 pump-valves.
1 set old gauge-cocks.
2 cotton mops and handles.
½ pound marline.
4 pounds oxalic acid.
6 boxes blacking.
4 boxes whiting.
2 chamois skins.
2 boxes castile soap.
1 box packing.
3 brushes.
6 bridles.

5 whisk-brooms.
1 pitchfork.
20 feet steam hose.
4 pounds gum packing.
1 old suction sleeve reducer.
2 old pipe-holders.
1 old cut off nozzle, three tips.
2 old sets reins.
2 cakes sapolio.
6 pounds tripoli.
1 scrubbing brush.
1½ dozen lamp-wicks.
1 Little Wonder fire escape.
1 Owens coupling.
1 old pipe.
12 assorted straps.
lot straps and traces.
15 pounds cotton waste.
10 old brass nozzles.
1 door mat.
lot old bedspreads, whips, etc.
2 axes.
2 old gongs.
7 old pole-straps.
6 back saddles.
2 old brass lamps.
1 stencil.
17 old tips.
3 gauges.

HOUSE DEPARTMENT.

11 bed spreads.
11 towels.
11 iron bedsteads.
11 old mattresses.
3 center tables.
1 new carpet.
1 writing desk.
22 old sheets.
10 old curtains.
1 looking-glass.
22 old blankets.
10 plug keys.
17 sheets.
1 bell.
11 bed springs.
12 arm-chairs.
3 table covers.

1 old carpet.
2 brass pipes.
1 corn broom.
1 step ladder.
1 wood bucket.
20 double blankets.
17 pillow-slips.
1 gong.
11 hair mattresses.
7 old wood chairs.
16 old spittoons.
6 old mats.
11 feather pillows.
1 hair duster.
1 feather duster.
1 clock.
10 alarm keys.

Members of No. 3 Engine Company.

| Name. | Position. | Age. | Occupation. | Residence. |
|------------------------|-----------------|------|------------------|---------------------------------|
| A. J. Sullivan | Foreman..... | 34 | Blacksmith | 3207 R street northwest. |
| Joseph O. Guy | Assist. foreman | 39 | Carpenter | 744 Seventh street southeast. |
| William E. Leeman ... | Engineer | 51 | Engineer | 319 Fourth street southeast. |
| William Kirkpatrick .. | Fireman | 41 | Carpenter | 335 First street northeast. |
| Michael Kane | Hostler | 41 | Hostler | 317 B street northeast. |
| James Frazier | Private | 47 | Mariner | 1001 Maryland avenue northeast. |
| James Nolan | do | 38 | Plasterer | 239 North Capitol street. |
| George Bohlayer | do | 30 | Painter | 622 E street southeast. |
| James Creamer | do | 32 | Laborer | 141 D street northeast. |
| Harry E. Thomas | do | 30 | Painter | 127 E street northeast. |
| James Lowe | Watchman | 66 | Carpenter | 63 H street northwest. |

ENGINE COMPANY NO. 4.

One 2 story brick house, located on Virginia avenue, between Four-and-a-half and Sixth streets southwest.

ENGINEER DEPARTMENT.

| | |
|---|------------------------|
| 1 third-class Silsby engine, in good order. | 2 coal-hods. |
| 1 Prunty heater. | 2 funnels. |
| 1 Prunty relief valve. | 2 drip-pans. |
| 1 slice-bar. | 1 bench-vise. |
| 2 reflecting-lamps. | 2 extension-wrenches. |
| 1 plated lamp. | 1 force-pump. |
| 4 suction-sleeve spanners. | 1 ratchet and drills. |
| 2 hose-spanners. | 1 pair sizers. |
| 4 packing-wrenches. | 2 wire pliers. |
| 2 screw-drivers. | 1 pair calipers. |
| 3 hammers. | 2 cold chisels. |
| 1 reducer for 9-inch plugs. | 1 washer-cutter. |
| 20 feet quarter-line. | 4 monkey-wrenches. |
| 10 oil-cans. | 1 breast-drill. |
| 10 feet three-quarter hose. | 1 pipe-wrench. |
| 2 belt-straps. | 1 brace. |
| 2 hitching-straps. | 1 packing-hook. |
| 1 oak bucket. | 1 pair tinner's snips. |
| 1 gum bucket. | 1 dust-brush. |
| 1 extra pole. | 1 Gould pump. |

HOSE-CARRIAGE DEPARTMENT.

| | |
|--|------------------------------|
| 1 four-wheel hose-carriage, in good order. | 1 gum bucket. |
| 1,300 feet Bay State hose, good. | 2 screw-jacks. |
| 400 feet Paragon hose, good. | 1 extra pole. |
| 700 feet Paragon hose, fair. | 1 pickax. |
| 50 feet Paragon hose, bad. | 1 ax. |
| 50 feet gum hose, bad. | 1 metal discharge pipe. |
| 2 Johnson pumps. | 1 cut-off nozzle and tips. |
| 2 lamps. | 1 spool-strap. |
| 2 reflecting lamps. | 2 carriagea, prons. |
| 4 ladder-straps. | 1 reducer, 9-inch plugs. |
| 1 hose-strap. | 1 plug-key. |
| 1 spool-snap. | 4 hose-clamps. |
| 100 feet life line. | 2 oak buckets. |
| 100 feet stretch line. | 2 extra wheels. |
| 1 Little Wonder fire-escape. | 1 cut-off nozzle and 3 tips. |

HOSTLER'S DEPARTMENT.

| | |
|---------------------------------|--|
| 1 horse, good condition. | 2 double sets swinging harness, extra. |
| 1 horse, lame condition. | 8 horse-blankets. |
| 5 horse, fair condition. | 4 horse-hoods. |
| 2 double sets swinging harness. | 1 peck measure. |

ENGINE COMPANY No. 4—Continued.

HOSTLER'S DEPARTMENT—continued.

8 bullwinkle snaps.
 4 gum blankets.
 8 saddle-pads.
 1 old pair breeching.
 6 pole-snaps.
 4 halters.
 2 head-stalls.
 20 feet three-quarter gum hose.
 1 old watering pot.
 2 oak buckets.
 1 pair clippers.
 4 old bridles.
 2 scrapers.
 3 pitchforks.

1 shovel.
 4 horse-sheets.
 4 hitching straps.
 1 sieve.
 4 trace-tugs.
 2 pad-saddles.
 4 bit-straps.
 1 lead bar.
 2 whips.
 1 wooden shovel.
 1 pair scales.
 2 bridle bits.
 2 sets single harness.

HOUSE DEPARTMENT.

13 towels.
 24 sheets.
 23 bed-spreads.
 42 pillow-cases.
 33 blankets.
 15 oak chairs.
 1 stair-carpet.
 19 stair-rods.
 11 shuck mattresses.
 11 hair mattresses.
 1 alarm-gong.
 1 sliding pole.
 10 window-shades.
 1 feather duster.
 2 clocks.
 3 looking-glasses.
 1 piece zinc.

10 spittoons.
 5 door-mats.
 1 writing-desk.
 1 table.
 1 book-case.
 2 carpets.
 1 stair oilcloth.
 11 iron bedsteads.
 3 old stoves.
 1 set rules.
 11 books of rules.
 11 box keys.
 2 relief keys.
 10 hose spanners.
 1 drill-gong.
 1 alarm-gong.
 1 water-cooler and stand.

STORE-HOUSE DEPARTMENT.

1 old Prunty cut-off nozzle.
 2 Little Wonder fire-escapes.
 2 cans harness oil.
 1 dozen tripoli.
 3 lamp globes.
 25 pounds axle-grease.
 6 corn brooms.
 2 pounds copper wire.
 6 cotton mops.
 2 files.
 1 putty-knife.
 1 lot old traces.
 1 adze.
 2 ax-handles.
 1 coal-hod.
 2 planes.

1 Jones coupling.
 1 suction-sleeve reducer.
 3 cans harness dressing.
 6 lamp-wicks.
 4 horse-brushes.
 1 gallon arnica.
 1 bar Castile soap.
 5 pounds tripoline.
 1 chamois skin.
 24 hose-rings.
 2 paint-brushes.
 1 metal branch pipe.
 2 pickaxes.
 3 mop-handles.
 2 gum buckets.
 1 handsaw.

MISCELLANEOUS.

1 old fuel wagon.
 5 old ladders.
 2 old engine wheels.

1 old suction-sleeve.
 6 old carriage-wheels.
 1 old heater-tank and cylinder.

Members of No. 4 Engine Company.

| Name. | Position. | Age. | Occupation. | Residence. |
|-------------------------|------------------|------|-------------------|----------------------------------|
| William T. Sorrell..... | Foreman | 53 | Mariner | 412 Twelfth street southwest. |
| James Kelliher..... | Asst. foreman... | 30 | Carpenter | 460 Virginia avenue southwest. |
| F. Donnelly..... | Engineer | 43 | Pattern-maker.... | 486 E street southwest. |
| H. Lambert..... | Fireman | 31 | Mariner | 317 D street southwest. |
| John Waldron..... | Host'er | 43 | Laborer | 343 D street southwest. |
| William W. White.... | Private | 47 | Brickmaker | 218 Willow tree court southwest. |
| Robert Dickson..... | do | 33 | Laborer | 205 Virginia avenue southwest. |
| Charles Burke..... | do | 36 | do | 614 Sixth street, southwest. |
| Walter Cox..... | do | 41 | Carpenter | 222 Delaware avenue northeast. |
| J. H. Dean..... | do | 28 | Boiler maker..... | 608 Virginia avenue southwest. |
| Charles Mead..... | do | 47 | Carpenter | 467 I street southwest. |

ENGINE COMPANY NO. 5.

One three-story brick house, with hose-tower attached, located on M street, near Thirty-second, West Washington.

ENGINEER DEPARTMENT.

| | |
|--|--------------------------|
| 1 fourth-class Clapp & Jones engine, with heater attached. | 2 braces. |
| 23 feet gum sleeve. | 10 assorted drills. |
| 1 Prunty relief-valve. | 1 pair dividers. |
| 3 packing-wrenches. | 1 rule. |
| 6 monkey-wrenches. | 1 drift-pin. |
| 1 supply-can. | 2 cylinder-cocks, old. |
| 3 hammers. | 4 "Gould" packing. |
| 1 shovel. | 1 locker. |
| 3 blanket-stays. | 1 feather duster. |
| 2 brass pipes and 5 nozzles. | 2 tons coal. |
| 2 nickel lanterns. | $\frac{1}{2}$ cord wood. |
| 2 pipe-tongs. | 1 brass sleeve plug. |
| 2 gas-tongs. | 1 brass sleeve basket. |
| 2 pair calipers. | 1 pump-wrench. |
| 6 assorted cold-chisels. | 3 squirt-cans. |
| 1 extractor. | 3 sleeve-spanners. |
| 2 heater valve springs. | 2 hose-spanners. |
| 1 vise and bench. | 1 whip. |
| 1 gum bucket. | 20 feet gum hose. |
| 1 wooden bucket. | 10 feet steam hose. |
| 1 sponge. | 2 pair pliers. |
| 1 chamois. | 1 ratchet and drills. |
| 3 sleeve jackets. | 1 square. |
| 1 gum goose-neck. | 1 washer-cutter. |
| 1 "S" wrench. | 1 expander. |
| 2 reducers. | 2 dies. |
| 1 bell and rack. | 1 jack. |
| 1 clock. | 1 ax. |
| 1 slice-bar. | 1 extra pole. |
| 2 plug-thawers. | 1 set lead bars. |
| 2 side-lights. | 1 lead rope. |
| 1 reflecting-lamp. | 4 leather traces. |

HOSE-CARRIAGE DEPARTMENT.

| | |
|---|--------------------------------|
| 1 four-wheel hose carriage, with geared spool, 800 feet paragon hose, good. | 4 tips. |
| 50 feet gum hose, good. | 4 axes, belts, etc. |
| 50 feet gum hose, bad. | 2 brass lanterns. |
| 650 feet Bay State hose, good. | 1 reflecting lantern. |
| 600 feet paragon hose, fair. | 24 feet ladders. |
| 650 feet paragon hose, bad. | 1 "Little Wonder" fire-escape. |
| 2 Johnson pumps. | 300 feet life-line. |
| 2 nozzle-tip reducers. | 1 brass spool-snap. |
| | 1 cushion. |

ENGINE COMPANY No. 5—Continued.

HOSE-CARRIAGE DEPARTMENT—continued.

1 gum bucket.
 1 wood bucket.
 1 axle-wrench.
 5 spanners.
 12 extra gum gaskets.
 1 Prunty cut-off, 4 tips.
 1 Prunty plain, 3 tips.
 1 Callahan cut-off, 2 tips.
 1 brass pipe holder.
 1 wood pipe holder.
 2 leather pipe holders.
 2 leather pockets.
 2 leather straps.
 50 feet rope.
 6 spool straps.
 1 whip.
 1 sponge.
 1 chamois.

1 box axle grease.
 1 singletree.
 2 casting lines.
 3 gum pipes.
 1 copper pipe.
 2 pipe-racks.
 2 ladder straps.
 2 iron hose-clamps.
 3 plug keys.
 1 Siamese.
 1 ceiling-hook.
 1 well-wheel.
 2 spool-cranks.
 3 keys.
 1 feather duster.
 1 jack.
 1 extra pole.
 4 extra wheels.

HOUSE DEPARTMENT.

2 fire-alarm gongs.
 1 trip for horses.
 3 sliding-poles.
 41 double blankets.
 1 single blanket.
 53 pillow-slips, 15 bad.
 5 carpets, 2 bad.
 12 cane-seat chairs.
 9 old chairs.
 4 step-ladders.
 1 watering-can.
 1 dust-pan and brush.
 2 mops and handles.
 Lot stationery, etc.
 2 combs and brushes.
 8 door-mats.
 2 coal-hods.
 50 feet garden hose.
 1 grindstone and frame.
 1 stable-gong.
 1 telephone.
 10 iron bedsteads.
 10 shuck mattresses.
 74 sheets, 14 bad.
 28 towels, 8 bad.
 21 feather pillows.
 18 window-shades.
 2 water-coolers.
 1 water-bucket.

1 feather duster.
 3 brooms.
 2 tables.
 2 book-cases.
 2 brushes.
 3 stoves and pipes.
 6 gas-lighters.
 10 latch-keys.
 1 bench.
 1 drill-gong.
 10 bed-springs.
 10 hair-mattresses.
 8 moss-pillows.
 16 stair-rods.
 1 office-chair.
 10 stone spittoons.
 6 iron spittoons.
 6 tin spittoons.
 2 gum spittoons.
 3 hair-dusters.
 1 writing-desk.
 175 books, etc.
 1 looking-glass.
 1 whisk-broom.
 4 zinc-sheets.
 1 fire-alarm board.
 6 tons white ash coal.
 Reports, etc.

HOSTLERS' DEPARTMENT.

4 horses.
 4 brass bands.
 4 leather bands.
 4 horse-covers.
 2 sets swinging harness.
 2 sets extra double harness.
 8 horse blankets.
 4 extra bits.
 6 extra bridles.
 3 whips.
 4 horse-hoods, bad.
 8 halter-stems.
 2 pad-saddles.

2 clipping-machines.
 1 clipping scissors and comb.
 1 shovel.
 3 feed-bins.
 1 feed-box.
 2 sieves.
 40 bushels oats.
 8 pounds harness-dressing.
 8 old saddles.
 2 curry-combs.
 1 mane-comb.
 1 singeing lamp.
 2 brooms.

ENGINE COMPANY No. 5—Continued.

HOSTLER'T DEPARTMENT—continued.

| | |
|---------------------------|------------------------------|
| 3 feed-bins. | 3 pitchforks. |
| 1 bucket. | 2 wood buckets. |
| 1 wheelbarrow. | 2 harness punches. |
| 450 pounds hay and straw. | $\frac{1}{2}$ -peck measure. |
| 2 chamois. | 1 platform scales. |
| 20 bulwinkle snaps. | 4 bushels bran. |
| 2 horse brushes. | 2 sponges. |
| 2 horse-scrapers, brass. | 2 pole-snaps. |

STORE-HOUSE DEPARTMENT.

| | |
|----------------------------|-----------------------------|
| 17 papers tripoli. | 8 gallons coal-oil. |
| 31 sheets emery cloth. | 5 gallons lard-oil. |
| 5 pounds whiting. | 2 lard cans. |
| 12 cakes toilet soap. | 1 coal-oil can. |
| 24 Babbitt's soap. | 1 iron bedstead. |
| 2 brass lanterns. | 1 bed spring. |
| 24 lamp-wicks. | 13 coupling rings. |
| 4 cotton mops. | 2 coupling dies and tap, |
| 3 horse-brushes. | 1 heater-cock. |
| 1 toilet comb and brush. | 1 heater grate and rim. |
| 4 chamois skins. | 100 feet life-line. |
| 2 stable brooms. | 2 boxes gas tapers. |
| 6 pounds gum. | $\frac{1}{2}$ -pound screw. |
| 3 wood buckets. | 2 buckets. |
| 1 pound rotten-stone. | 2 discharge gates. |
| 25 pounds cotton waste. | 15 brass air nuts. |
| 5 pounds Matchless polish. | 3 gauge cocks. |
| 2 cans harness oil. | 2 globe valves. |
| 2 cans harness dressing. | 2 spray nozzles. |
| 12 globes. | 1 Owens coupling. |
| 1 oil cup. | 2 coupling machines. |
| 2 mop-handles. | 2 large spanners. |
| 11 brushes. | 1 set heater connections. |
| 4 rubbing cloths. | 1 gong. |
| 1 feather duster. | 5 pounds tallow. |
| 2 whisk brooms. | 2 pounds marline. |
| 3 sheets packing. | 2 papers tacks. |
| 1 bucket axle grease. | 4 old springs. |
| 12 cakes sapolio. | 4 glass gauges. |
| 10 pounds oxalic acid. | 10 old pump valves. |
| 12 pounds castile soap. | 12 assorted bolts. |
| 2 pounds harness soap. | 1 Prunty cut-off, old. |
| 2 pounds copper rivets. | 1 Healey cut-off, old. |
| 1 reflecting lamp. | 5 sets couplings. |
| 10 balls wick. | 1 lever. |
| 1 curry-comb. | 1 reducer. |
| 10 boxes blacking, 4 dips. | 2 sets grates. |
| 5 pounds sponge. | 10 pulleys. |
| 4 brooms. | 5 pounds packing. |
| 2 whitewash brushes. | Lot medicine. |
| 2 pounds sash cord. | Lot paints. |
| 4 lamp burners. | 2 funnels. |

FIRE MARSHAL DEPARTMENT.

| | |
|------------------|--------------------------------|
| 1 horse. | 1 sponge. |
| 1 carriage. | 1 chamois skin. |
| 1 set harness. | $\frac{1}{2}$ box axle-grease. |
| 1 whip. | 1 wrench. |
| 2 lap-ropes. | 2 old breast-collars. |
| 1 curtain. | 1 old traces. |
| 1 horse-cover. | 2 britching straps. |
| 1 horse-blanket. | 1 reflecting lamp. |
| 1 horse fly-net. | 4 extra carriage-wheels. |

Members of No. 5 Engine Company.

| Name. | Position. | Age. | Occupation. | Residence. |
|-----------------------|--------------------|------|-----------------|--------------------------------------|
| John D. Kurtz..... | Foreman..... | 35 | Carpenter | 1687 Valley street northwest. |
| J. T. Young..... | Assistant foreman. | 37 | Miller | 1515 Thirty-second street northwest. |
| W. B. Read | Engineer | 44 | Plumber..... | 1711 New York avenue northwest. |
| J. D. Angell..... | Fireman | 40 | Engineer | 1066 Thirty-first street northwest. |
| J. H. Mahorney | Hostler | 47 | Carpenter | 3221 P street northwest. |
| G. W. Tenley | Private | 29 | Laborer..... | 3259 Prospect avenue northwest. |
| T. C. Whelan | do | 40 | do | 1522 Thirty-second street northwest. |
| R. R. Allen | do | 28 | do | 1068 Thirty-first street northwest. |
| A. M. Donaldson. | do | 27 | do | 325 Ninth street southeast. |
| W. T. Mahorney..... | do | 40 | do | 2013 Thirty-fifth street northwest. |

ENGINE COMPANY NO. 6.

One two-story brick house, with stable and hose-tower attached, located on Massachusetts avenue, between Fourth and Fifth streets northwest.

ENGINEER DEPARTMENT.

| | |
|-------------------------------------|----------------------------------|
| 1 third-class Clapp & Jones engine. | 1 shovel. |
| 1 Prunty heater. | 2 jacks. |
| 4 lamps. | 2 gallons oil. |
| 6 nozzles. | 6 files. |
| 8 wrenches. | 1 discharge gate, old. |
| 1 fender and slice-bar. | 5 globe-valves, old. |
| 5 extra engine-wheels. | 1 reflecting lamp. |
| 1 washer-cutter. | 25 feet steam-hose. |
| 5 pounds cotton waste. | 3 singletrees. |
| 1 extra pole. | 3 oil-cans. |
| 4 slip-joints. | 1 pound acid. |
| 4 spanners. | $\frac{1}{2}$ dozen emery cloth. |
| 3 oil cans, squirt. | |

HOSE CARRIAGE DEPARTMENT.

| | |
|--------------------------------|-----------------------------|
| 1 hose-carriage. | 200 feet Paragon hose, bad. |
| 1 gum bucket. | 1 reflecting lamp. |
| 1 sheet zinc. | 1 Johnson's pump. |
| 1 Prunty nozzle and tips. | 1 carriage-apron. |
| 1 Ashworth nozzle and 3 tips. | 24-foot ladders. |
| 1,400 feet Paragon hose, good. | 100-foot life-line. |
| 100 feet American hose, good. | 2 extra wheels. |
| 750 feet Bay State hose, good. | |

HOSTLER'S DEPARTMENT.

| | |
|---|---------------------------|
| 5 horses. | 1 pad-saddle. |
| 2 sets double swinging harness. | 2 bits. |
| 1 extra set swinging traces, collar, and harness. | 4 halter-stems. |
| 10 horse-blankets. | 2 scrub-brushes. |
| 2 horse-buckets. | 500 pounds hay and straw. |
| 2 pairs clippers. | 1 shovel. |
| 1 scraper. | Lot old harness. |
| 4 hitching straps. | 3 whips. |
| 4 hoods and traces. | 1 saddle and bridle. |
| 3 curry-combs. | 1 block and fall. |
| 2 pitchforks. | 3 rubbing cloths. |
| 4 bridles. | 10 bushels oats. |

ENGINE COMPANY No. 6—Continued.

HOUSE DEPARTMENT.

| | |
|-----------------------|---------------------|
| 10 iron bedsteads. | 1 alarm gong. |
| 14 towels. | 12 looking-glasses. |
| 11 feather pillows. | 4 towels. |
| 1 lounge, old. | 2 stoves. |
| 1 book-case. | 26 bed-spreads. |
| 24 arm chairs. | 1 writing-desk. |
| 27 pillow-cases. | 2 mats. |
| 2 step-ladders. | 2 clocks. |
| 11 spring mattresses. | 1 drill-gong. |
| 23 hair mattresses. | 48 sheets. |
| 17 spittoons, old. | |

STORE-ROOM DEPARTMENT.

| | |
|------------------------------------|-----------------------------------|
| 1 dozen toilet-soap. | 3 hitching straps. |
| 3 chamois skins. | 1 small gong. |
| 3 cans castrolian. | 1 toilet comb and brush. |
| $\frac{1}{2}$ gross matches. | 1 can cosmoline. |
| 3 curry-combs. | 1 dozen snaps. |
| $\frac{1}{2}$ pound copper rivets. | $\frac{1}{2}$ dozen Babbitt soap. |
| 1 bucket. | 2 mane brushes. |
| 6 gallons coal-oil. | 4 dozen silver cord. |
| 3 whisk brooms. | 9 expansion rings. |
| 1 dozen sponges. | 3 cans harness dressing. |
| $\frac{1}{2}$ pound tripoli. | 1 can harness oil. |
| 3 pounds packing. | 3 glass gauges. |
| 1 dozen blacking. | 2 spanners. |
| 2 blacking-brushes. | $\frac{1}{2}$ dozen couplings. |
| 1 hank sash cord. | 1 cut-off nozzle. |
| 4 horse cloths. | $\frac{1}{2}$ dozen brooms. |

CHIEF ENGINEER.

| | |
|-----------------------------|--------------------|
| 1 wagon. | 1 cover and apron. |
| 2 sets single harness. | 2 lap-robcs. |
| 1 whip, robe, and blankets. | |

MISCELLANEOUS.

| | |
|-------------------|----------------------|
| 1 stove and pipe. | 1 apron. |
| 3 carpets. | 2 steam-gauges. |
| 1 stair carpet. | 1 life line. |
| 8 curtains. | 9 nozzles. |
| 1 water-cooler. | 2 pillows. |
| Lot old carpet. | 3 mats. |
| 1 hand lamp. | 1 engine set-off. |
| 2 sets couplings. | 100 feet small hose. |
| 3 mattresses. | 1 mat. |
| 1 saddle. | 1 head-light. |
| 1 bridle. | 10 couplings. |
| 2 ropes. | 1 gum pipe. |

Members of Engine Company No. 6.

| Name. | Position. | Age. | Occupation. | Residence. |
|----------------------|------------------|------|-------------------|-------------------------------|
| Francis Lewis..... | Foreman | 48 | Painter | 408 Fifth street northeast. |
| Alex. Brown..... | Asst. foreman... | 34 | do | 826 Fourth street northwest. |
| Thomas Martin..... | Engineer | 49 | Blacksmith. | 475 I street northwest. |
| William Ricks..... | Fireman | 35 | Engineer | 1324 Fourth street northwest. |
| Alex. Savoy | Hostler | 44 | Barber | 412 First street southwest. |
| H. Wright | Private..... | 37 | Carpenter | 312 M street northwest. |
| William Luskey..... | do | 40 | Laborer | 409 Fifth street northeast. |
| William Wannell..... | do | 31 | Electrotyper..... | 421 I street northwest. |
| John Lynch | do | 29 | Laborer..... | 217 G street northwest. |
| George Maguire | do | 34 | Fireman | 411 Fifth street northeast. |
| C. Reinhart..... | do | 25 | Steam-fitter..... | 421 I street northwest. |

ENGINE COMPANY No. 7.

One two-story brick house and one-story feed house and shed, located on R street between Ninth and Tenth.

ENGINEER DEPARTMENT.

| | |
|--------------------------------------|------------------------|
| 1 fourth-class Clapp & Jones engine. | 1 goose-neck. |
| 1 heater with feed boiler. | 1 supply oil-can. |
| 1 jack-screw. | 1 set slip joints. |
| 3 reducers. | 1 set extra grates. |
| 3 spanners. | 1 set try-cocks. |
| 1 vise and bench. | 2 pipe holders. |
| 2 brass pipes. | 1½ tons coal. |
| 23 feet suction hose. | 2 packing hooks. |
| 1 gum bucket. | 1 shovel and poker. |
| 1 wood bucket. | 20 feet steam hose. |
| 1 wrench and hammer. | 1 Owen connection. |
| 2 gum washers. | 4 leather half traces. |
| 4 hose washers. | 4 lamps. |
| 3 wrenches. | 2 tool-boxes. |
| 25 gallons lard oil. | 1 strainer. |
| 20 gallons coal oil. | 3 gauges. |
| 2 squirt oil-cans. | 1 ax. |
| 1 plug thawer. | 2 oil-cans. |
| 1 Prunty relief valve. | 1 spanner. |
| 2 monkey-wrenches. | 1 Tower wrench. |
| 2 reflecting lamps. | 1 screw plug-key. |
| 1 bell. | 1 drip box. |

HOSE-CARRIAGE DEPARTMENT.

| | |
|--------------------------------------|------------------------------|
| 1 four-wheel hose-carriage. | 2 hose-clamps. |
| 1, 250 feet Paragon hose, fair. | 1 jack. |
| 700 feet Bay State hose, fair. | 2 plug keys. |
| 150 feet Bay State hose, old. | 1 gum bucket. |
| 200 feet Paragon hose, old. | 6 spanners. |
| 2 gum play-pipes. | 2 spool straps. |
| 1 Prunty cut-off nozzle and tips. | 23-foot ladder. |
| 4 Ashworth cut-off nozzles and tips. | 2 extra wheels. |
| 70 feet rope. | 2 ladder hose-straps. |
| 1 bell. | 1 lantern. |
| 1 wrench. | 2 Johnson's pumps. |
| 1 set box keys. | 4 leather half traces. |
| 1 reducer. | 2 hatchets, belts, etc. |
| 1 pickax. | 1 Little Wonder fire-escape. |
| 2 cushions. | 1 ceiling hook. |
| 107 feet life line. | 1 spring spool strap. |
| 6 gum washers. | 1 spool canvas and apron. |
| 1 leather holder. | |

1 RESERVE HOSE-CARRIAGE.

| | |
|-----------------|-------------------------------|
| 23-foot ladder. | 2 pole straps and snaps. |
| 1 cushion. | 50 feet Bay State hose, fair. |
| 4 half traces. | 300 feet Paragon hose, fair. |
| 1 bell. | |

HOSTLER'S DEPARTMENT.

| | |
|--|--------------------|
| 4 horses. | 2 wood buckets. |
| 2 sets double harness, collar, hames, etc. | 2 rubbing cloths. |
| 1 set old harness. | 8 blankets. |
| 1 pad saddle. | 4 old bridles. |
| 2 brooms. | 4 hitching-straps. |
| 2 whips. | 2 sponges. |
| 3 collars, hames, etc. | 4 halter stems. |
| 1 shovel. | 2 pitchforks. |

ENGINE COMPANY No. 7—Continued.

HOSTLER'S DEPARTMENT—continued.

1 harness punch.
1 feed bin.
5 horse covers.
2 brass scrapers.
2 clipping-machines.
1 peck measure.
2 curcingles.
50 bushels oats.

200 bushels bran.
1 singeing-lamp.
2 curry-combs and brushes.
1 pair shears.
2 mane brushes.
1,000 pounds straw.
300 pounds hay.

HOUSE DEPARTMENT.

Trip for releasing horses.
20 sheets.
20 pillow-slips.
30 pair blankets.
8 towels.
10-foot step-ladder.
2 tables.
2 dust pans and brush.
1 hatchet and saw.
16 window-shades.
5 brooms.
15 pounds oakum.
1 looking-glass.
1 whisk broom.
1 toilet comb and brush.
1 old pipe and nozzle.
1 alarm gong.
1 drill gong.
10 feather pillows.
10 hair pillows.
3 carpets.
1 water-cooler and stand.
4 mops and handles.

1 grindstone and stand.
16 chairs.
14 lockers.
1 water-trough.
50 feet garden hose.
Lot books.
Marking stamps, etc.
2 door straps.
10 iron bedsteads.
10 hair mattresses.
10 shuck mattresses.
10 bed-spreads.
1 Bell telephone.
1 writing-desk.
2 coal-hods.
1 wood bucket.
2 cloaks.
4 stoves.
9 tons R. A. S. coal.
1 set caulking tools.
2 brushes.
12 spittoons.
1 hair duster.

STORE-HOUSE DEPARTMENT.

10 papers stripoli.
1 box axle grease.
3 pounds oxalic acid.
3 pounds whiting.
6 pounds Babbitt's soap.
6 towels.
14 pounds crocus and emery.
1 monkey-wrench.
20 pounds waste.
1 gross matches.
1 pair pliers.
1 wood chisel.
1 washer-cutter.
10 drills.
9 files, assorted.
1 Healy cut-off and tips.
2 pieces polish.
5 chamois skins.
6 globes.
2 brass lanterns.
10 sheets.
1 suction-clamp.
4 pounds gum packing.
1 pair calipers.

10 bedspreads.
3 pounds copper wire.
4 boxes blacking.
1 jack.
3 pounds packing.
3 wood-bits.
1 screw-driver.
1 dozen lamp wicks.
1 sponge.
3 old snaps.
4 mops.
8 pillow-slips.
1 oil-stove.
1 ratchet brace and bits.
1 compass and dividers.
2 dusters.
10 copper expansion rings.
1 hank silver-lake cord.
1 can harness dressing.
1 reamer and cleaner.
2 cold chisels.
5 nozzles and tips.
3 nozzles, old.

Members of No. 7 engine company.

| Name. | Position. | Age. | Occupation. | Residence. |
|------------------------|------------------|------|------------------|---|
| F. I. Wagner..... | Foreman | 45 | Butcher | 952 R street northwest. |
| Calhoun Clarke..... | Engineer | 49 | Laborer | 1402 S street northwest. |
| P. I. Carroll | Fireman | 35 | Blacksmith..... | 724 Fourth street northwest. |
| George G. Warren | Hostler | 30 | Driver..... | 1719 Vermont avenue northwest. |
| S. W. Donaldson..... | Asst. foreman... | 27 | do | 1717 Vermont avenue northwest. |
| M. Sweeny..... | Private..... | 30 | Laborer | Eighth street northwest. |
| W. H. Webb..... | do | 25 | do | 706 Rhode Island avenue north-
west. |
| Timothy O'Brien | do | 29 | do | 38 G street northwest. |
| W. P. Cadv | do | 23 | do | 1830 Eighth street northwest. |
| T. J. Lynch..... | do | 33 | Coach trimmer .. | 437 H street northwest. |

TRUCK A COMPANY.

One two-story brick-house, out buildings attached, located on North Capitol street between B and C northeast.

TRUCK DEPARTMENT.

- | | |
|--|----------------------------------|
| 1 truck built by Buckley & Merritt, re-
built by McDermott & Bro. | 1 battering-ram. |
| 1 65-foot Bangor extension ladder, with
lever, guys, etc. | 4 lamps. |
| 1 50-foot Bangor extension ladder, with
lever, guys, etc. | 300 feet rope. |
| 1 30-foot ladder. | 1 crowbar. |
| 1 24-foot ladder. | 6 gas-keys. |
| 1 20-foot ladder. | 1 hammer. |
| 1 17-foot ladder. | 8 hay-hooks. |
| 1 16-foot ladder. | 1 set alarm-keys. |
| 1 12-foot ladder. | 2 brooms. |
| 1 10-foot ladder. | 3 pitchforks. |
| 1 siamese hose connection. | 1 turn-table on platform. |
| 1 "Little Wonder" fire-escape. | 2 Holloway's fire extinguishers. |
| 2 monkey-wrenches. | 50 feet hose. |
| 2 saws. | 4 axes, belts, etc. |
| 2 shovels. | 1 hook and chain. |
| 2 Johnson pumps. | 1 life-net. |
| 1 house key. | 2 life belts. |
| 1 extra wheel. | 150 feet life lines. |
| 7 fire hooks. | 1 screw-driver. |
| 4 pickaxes | 1 gas-plier. |
| 1 door-opener. | 1 wire-plier. |
| | 4 gum buckets. |
| | 1 truck wrench. |

HOUSE DEPARTMENT.

- | | |
|-------------------------|-----------------------|
| 11 iron bedsteads. | 2 clocks. |
| 34 arm-chairs. | 26 pillow-slips, new. |
| 2 tables. | 24 pillow-slips, old. |
| 1 wardrobe. | 4 bolster-slips. |
| 2 looking-glasses. | 1 feather duster. |
| 1 stair carpet. | 1 37-foot ladder. |
| 2 rugs. | 1 16-foot ladder. |
| 24 sheets, new. | 13 hair mattresses. |
| 32 sheets, old. | 12 hair pillows. |
| 9 curtains. | 12 feather pillows. |
| 2 sliding poles. | 1 alarm-gong. |
| 1 dust pan and brush. | 14 spittoons. |
| 5-gallon copper kettle. | 1 oil-cloth. |
| 11 spring mattresses. | 1 set books. |
| 3 carpets. | 22 towels. |
| 1 writing-desk. | 18 bedspreads. |
| 2 stoves. | 42 pair blankets. |
| 18 globes. | 1 broom. |
| 26 stair rods. | |

TRUCK A COMPANY—Continued.

HOSTLER DEPARTMENT.

4 horses.
 1 set double swinging harness.
 1 set double swinging harness, old.
 4 horse blankets.
 1 pad saddle.
 4 curry-combs and brush.
 2 hay forks.
 4 hitching straps.
 2 scrapers.
 2 extra pole snaps.
 1 wheelbarrow.
 1 telephone.
 1 stove.
 4 trips for releasing horses.
 4 hoods.
 1 breast strap.
 6 halter stems.
 2 shovels.

2 horse cloths.
 4 bridles.
 1 harness-punch.
 25 bushels oats.
 2 chairs.
 10-foot step-ladder.
 1 cutting box.
 4 fly covers.
 2 pair clippers.
 1 pair shears.
 2 wood buckets.
 2 mane brushes.
 4 extra bits.
 2 brooms.
 1,100 pounds hay and straw.
 2 mats.
 1 drill gong.

Assistant chief.

1 Concord wagon.
 1 blanket.
 2 whips.
 1 seat.
 1 sponge.
 2 sets single swinging harness.
 2 fly nets.

1 weight.
 1 cover.
 1 wrench.
 2 lap-robcs.
 1 jack.
 1 chamois skin.

STORE-ROOM DEPARTMENT.

3 feather dusters.
 2 dust pans.
 1 gallon carbolic acid.
 10 wood chain seats.
 $\frac{1}{2}$ gallon arnica.
 6 boxes blacking.
 1 pound sash cord.
 12 assorted straps.
 12 papers tripoli.
 2 pounds oxalic acid.
 2 pounds stove polish.
 1 head light.
 200 feet rope.
 400 feet old rope.
 2 pipe holders.
 1 peck measure.
 3 chamois skins.
 3 dust brushes.
 1 washer-cutter.
 10 pounds nails.
 5 old axes, 10 handles.
 4 brooms.
 3 pounds sponge.
 2 curry-combs.
 2 cans harness dressing.
 5 pounds cotton-waste.
 2 saws.
 3 singletrees.
 2 mats.
 1 "Little Wonder" fire-escape.
 2 pickaxes.
 1 drawing-knife.

4 tin cups.
 2 lamp-burners.
 10 lamp-shades.
 1 grate.
 3 mops, 2 handles.
 10 pounds Babbitt's soap.
 4 pounds harness soap.
 2 horse-brushes.
 6 scrub-brushes.
 1 mane-brush.
 6 old lamps.
 2 tons white ash stove coal.
 2 tons engine coal.
 4 old gum buckets.
 4 old hooks.
 1 brace and 4 bits.
 1 screw-driver.
 30 gallons lard-oil.
 5 gallons coal-oil.
 50 feet garden hose.
 1 screw jack.
 4 planes.
 2 old gum pipes.
 12 charges fire extinguisher.
 50 feet street hose.
 1 reducer.
 1 oil-can.
 4 coal-hods.
 100 feet old hose.
 3 pounds copper wire.
 1 pair platform scales.

TRUCK A COMPANY—Continued.

EXTRA ENGINE DEPARTMENT.

| | |
|--------------------------------------|---------------------|
| 1 fourth-class Clapp & Jones engine. | 1 monkey-wrench. |
| 1 10-foot suction. | 1 squirt-can. |
| 1 14-foot suction-sleeve. | 2 stud-bolts. |
| 4 spanners. | 2 swinging lamps. |
| 1 oil-can. | 2 reflecting lamps. |
| 1 reducer. | 1 slice-bar. |
| 2 brass pipes. | 2 blind caps. |
| 10 feet steam hose. | 1 shovel. |

Members Truck A Company.

| Name. | Position. | Age. | Occupation. | Residence. |
|-----------------------|---------------------|------|--------------------|-------------------------------------|
| Samuel R. Henry..... | Tillerman | 38 | Laborer | 20 Second street northeast. |
| F. W. Raitz | Asst. foreman | 31 | Seaman | 1014 I street southeast. |
| J. O'Leary | Hostler | 39 | Blacksmith | 35 Massachusetts avenue north-west. |
| Joseph Mulhall | Private | 35 | Painter | 35 Ivy street southeast. |
| P. W. Nicholson | do | 27 | Paper hanger | 618 B street southeast. |
| T. R. Newman | do | 51 | Blacksmith | 307 A street northeast. |
| J. P. Kane | do | 39 | Plasterer | 814 C street northeast. |
| Richard McGrath | do | 28 | Laborer | 15 C street northeast. |
| F. H. Cross | do | 24 | Boiler-maker | 711 E street southeast. |
| J. E. Hooper | do | 26 | Laborer | 330 B street northeast. |

TRUCK B COMPANY.

One two-story brick house, with one-story brick shed attached, located corner New Hampshire avenue and M street northwest.

TILLERMAN'S DEPARTMENT.

| | |
|---|---------------------------------|
| 1 Babcock hook-and-ladder truck. | 1 brass spanner. |
| 1 Bangor extension ladder, 70 feet, with lever attachments. | 5 water-keys. |
| 1 Bangor extension ladder, 51 feet, with lever attachments. | 3 sponges. |
| 1 plain ladder, 35 feet. | 1 brass oil-can. |
| 1 plain ladder, 25 feet. | 6 brooms. |
| 1 plain ladder, 20 feet. | 4 picket-lines. |
| 1 plain roof ladder, 18 feet. | 2 life-lines. |
| 1 plain roof ladder, 16 feet. | 17 extinguisher charges. |
| 1 plain scaling ladder, 10 feet. | 1 iron block. |
| 3 plain ceiling ladders, 12 feet each. | 2 truck-lamps. |
| 2 Holloway's ceiling fire-extinguishers with 137 feet hose. | 2 sponges. |
| 4 pickaxes. | 40 feet 2½-inch iron pipe. |
| 8 gum buckets. | 1 headlight. |
| 1 wall-hook. | 2 pipe-holders. |
| 2 large straps. | 2 hand-saws. |
| 2 large hammers. | 2 pinch-bars. |
| 2 large chisels. | 1 plug-key. |
| 2 augers. | 4 pitchforks. |
| 5 hand gas-keys. | 2 funnels. |
| 6 hay-hooks. | 1 reducer. |
| 1 plain ax. | 5 pounds axle-grease. |
| 5 tubular lamps. | 3 coils rope. |
| 1 battering-ram. | 4 brass nozzles. |
| 1 platform for ladders. | 2 chamois. |
| 2 oak buckets. | 1 singletree and traces. |
| 1 cedar bucket. | 6 extra pickaxes. |
| 1 tin bucket. | 1 shovel. |
| 1 pair snips. | 1 monkey-wrench. |
| 1 pair wire-nippers. | 3 Johnson's pumps. |
| | 3 "Little Wonder" fire-escapes. |
| | 1 spade. |
| | 2 shovels. |

TRUCK B COMPANY—Continued.

TILLERMAN'S DEPARTMENT.

| | |
|-------------------------|------------------------|
| 2 wall-pick. | 2 wrenches. |
| 8 hatchets, belts, etc. | 1 canvas jumping-net. |
| 9 assorted fire-hooks. | 1 jack. |
| 1 life-saving net. | 6 old lanterns, brass. |
| 2 life-saving belts. | 1 old reflector. |
| 1 door-opener. | 2 cotton dusters. |
| 1 large screw-driver. | 2 feather dusters. |
| 1 harness-punch, old. | 1 extra pole, old. |

STORE-HOUSE DEPARTMENT.

| | |
|---|----------------------------------|
| 5 horse-brushes. | 2 horse-cloths. |
| 10 cakes soap. | 7 cakes polish. |
| 4 pounds harness soap. | 3 papers tacks. |
| 2 cans harness oil. | 2 boxes screws. |
| 2 cans harness dressing. | 2 large files. |
| 2 cans hoof ointment. | 1 oxalic acid. |
| 2 dozen emery and crocus cloth. | 4 globes, tubular. |
| 4 brass burners. | 4 burners, tubular. |
| 15 pounds cotton-waste. | 1 lamp, tubular. |
| 4 cotton dusters. | 3 scrubbing-brushes and handles. |
| 1 hand-saw. | 1 sheet asbestos. |
| $\frac{1}{2}$ dozen corn brooms. | 5 straps. |
| 5 curry-combs. | 1 glass gauge. |
| 2 dust-pans. | 6 cakes toilet soap. |
| 1 bar castile soap. | $\frac{1}{4}$ gross matches. |
| 2 pounds copper wire. | 10 gallons coal-oil. |
| 1 paper wire springs. | 4 pounds nails. |
| 1 dozen assorted files. | 6 pounds camphor. |
| 2 $\frac{1}{2}$ dozen bit straps and snaps. | 4 chamois skins. |
| 3 dozen lamp-wicks. | 1 whisk-broom. |
| 1 $\frac{1}{2}$ dozen tripoli. | 100 feet sash-cord. |
| 1 dozen mops and 2 handles. | 1 comb and brush. |
| 5 ax-handles. | 5 headlight globes. |
| 1 sponge. | 2 headlight glass. |
| 3 mane-brushes. | |

HOUSE DEPARTMENT.

| | |
|-----------------------------------|--|
| 1 book-case. | 4 globes. |
| 12 iron bedsteads. | 1 small carpet. |
| 12 springs. | 2 small tables. |
| 48 double blankets. | 1 wool duster. |
| 25 bedspreads. | 8 posts and chains. |
| 14 towels, old. | Lot books. |
| 12 towels, new. | Lot stove pipe, etc. |
| 1 center-table. | 1 cocoa mat. |
| 2 chandeliers. | 24 cane-seat chairs. |
| 11 window curtains. | 1 reclining chair. |
| 1 whisk. | 12 feather pillows. |
| 1 mop. | 1 wardrobe. |
| 1 shovel, zinc, etc., for stoves. | 25 sheets, old. |
| 1 desk. | 23 sheets, new. |
| 3 new carpets and lining. | 3 old carpets. |
| 24 old mats. | Stair-rods. |
| 1 sofa. | 1 clock. |
| 2 looking-glasses. | 1 feather duster. |
| 13 hair mattresses. | 2 corn brooms. |
| 9 hair pillows. | 1 dust-pan and brush. |
| 24 old slips. | 1 hair comb and brush, and stationery. |
| 16 new slips. | 1 alarm-gong. |
| 8 spittoons. | 3 awnings. |
| 2 stoves. | |

TRUCK B COMPANY—Continued.

HOSTLERS' DEPARTMENT.

| | |
|-----------------------------|---------------------------------|
| 5 horses. | 2 surcingles. |
| 1 pair extra reins. | 1 bar castile soap. |
| 1 oat cleaner and sieve. | 3 pounds carbolic. |
| 4 pitchforks. | 2 extra pole-straps. |
| 2 curry-combs. | 5 linen horse-covers. |
| 2 brushes. | 3 one-half traces, old. |
| 5 horse-boots. | 2 mane-combs. |
| 2 oak buckets. | 1 new whip. |
| 7 horse-blankets. | 5 halter-stems. |
| 4 halter-stems and halters. | 1 set double harness, complete. |
| 1 wood bucket, old. | 1 set double harness, old. |
| 4 extra bridle-bits. | 1 block and fall. |
| 3 sponges. | 1 shovel. |
| 4 extra pole-snaps, old. | 2 corn brooms. |
| 1 canvas bucket. | 1 cotton duster. |
| 1 pair horse-clippers. | 2 saddles. |
| 1 pair shears. | 3 whips, old. |
| 4 stall-trips. | 2 hoods, old. |
| 1,500 pounds hay. | 2 cans cream dressing. |
| 600 pounds straw. | 1 can harness polish. |
| 45 bushels oats. | 1 lot medicine. |
| 5 bushels bran. | 1 harness punch. |
| 1 cotton mop. | 4 hitching straps, old. |
| 2 mane-brushes. | 4 hitching straps, new. |
| 2 sweat-scrapers. | 2 horse cloths. |
| 1 trap-hook. | 2 one-half reins. |
| 1 set extra bridles. | 1 ax, old. |

TOOL DEPARTMENT.

| | |
|-----------------------------|--|
| 1 Tower wrench. | 2 soldering irons. |
| 3 assorted wrenches. | 2 hammers. |
| 5 pair pliers. | 1 washer-cutter. |
| 1 rivet punch and stamp. | Hatchets, saws, planes. |
| 1 lot of carpenter's tools. | Plumber's tongs. |
| 1 oil-stove. | 1 pair calipers. |
| 1 grindstone. | 1 pair-compasses. |
| 1 vise. | 2 screw-drivers, chisels, square, etc. |
| 1 glue-pot, etc. | 1 squirt-can. |

ASSISTANT CHIEF'S DEPARTMENT.

| | |
|-------------------------------------|-----------------------|
| 1 wagon. | 1 old pair lines. |
| 1 new and 1 old set single harness. | 2 chamois skins. |
| 2 extra bridles. | 3 sponges. |
| 2 horse-blankets. | 1 gong. |
| 1 leather fly-net. | 3 storm-covers. |
| 1 feather duster. | 2 whips. |
| 1 weight. | 1 old collar. |
| 1 old set wheels. | 1 jack. |
| 2 winter lap-robos. | 2 wrenches. |
| 1 summer lap-robe. | 1 hanger for harness. |

MISCELLANEOUS.

| | |
|---------------------|--------------------------|
| 3 tons splint coal. | 2 old buckets. |
| 2 tons stove coal. | 1 old wheelbarrow. |
| 1 wash-brush. | 75 feet garden hose. |
| 2 cold chisels. | 4 sets alarm keys. |
| 1 platform scales. | 1 old water-cooler. |
| 1 spade. | 1 hair-brush, 14 inches. |
| 2 shovels. | 1 brush and handle. |
| 1 watering pot. | 7 assorted brushes. |
| 2 step-ladders. | 1 old stove, pipe, etc. |
| 2 stove-brushes. | 2 benches and trestles. |
| 6 coal-hods. | |

TRUCK B COMPANY—Continued.

EXTRA ENGINE DEPARTMENT.

| | |
|--|-----------------------------------|
| 1 Clapp & Jones engine. | 5 pipes and 3 nozzles. |
| 1 hammer. | 1 cut off nozzle and water-gauge. |
| 1 reducer. | 7 assorted wrenches. |
| 1 discharge-gate. | 2 spanners. |
| 10 feet old canvas hose. | 1 shovel and poker. |
| 1 oil-can. | 1 flue-scraper. |
| 1 squirt-can. | 4 lamps, nickel. |
| 1 extra truck, old. | 1 pole and double trees. |
| 1 40-foot ladder, lever and pole. | 1 whip. |
| 1 40-foot ladder, plain. | 1 jack. |
| 1 25-foot ladder, plain. | 1 large oil-can. |
| 1 30-foot ladder, plain. | 1 small oil-can. |
| 1 20-foot splice for extension ladder. | 1 cover. |
| 2 extension suction-sleeves. | 1 shovel. |
| 1 cellar pipe and iron. | 1 harness hanger. |
| 1 old pole. | 1 wrench. |
| 1 new fuel-wagon, set harness, complete. | 1 Towers' wrench. |
| 2 tubular lamps. | 1 gong. |
| 3 crowbars. | 1 weight. |
| 1 set extension boxes. | |

TRUCK AND SITTING ROOMS.

| | |
|--------------------------|-------------------|
| 2 stoves, pipes, etc. | 1 duster. |
| 2 gongs. | 1 telephone. |
| 2 dust pans and brushes. | 1 towel-rack. |
| 1 bucket. | 2 step-ladders. |
| 2 tables. | Trips for horses. |
| 1 mat. | 2 corn brooms. |
| 4 spittoons. | 9 old oak chairs. |
| 1 clock. | 1 water-gauge. |
| 2 cotton mops. | 1 curtain. |

Members Truck B company

| Name. | Position. | Age. | Occupation. | Residence. |
|---------------------|------------------|------|--------------------|---|
| John Sherman..... | Act'g foreman .. | 43 | Laborer | 1831 R street northwest. |
| M. J. Niland | Asst. foreman .. | 25 | Plumber | 1148 Twentieth street northwest. |
| D. Williams | Hostler | 47 | Laborer | 1212 Twenty-fourth street north-
west. |
| T. Donahue..... | Private | 31 | Stone-cutter | 1137 Twenty-third street north-
west. |
| J. T. Hyland..... | do | 30 | Laborer | 1240 New Hampshire avenue
northwest. |
| J. J. Cannon..... | do | 32 | do | Do. |
| P. Maleaney..... | do | 25 | Miner | 1824 Boundary street northwest. |
| T. P. Purcell | do | 30 | Stone-cutter | 1123 Twenty-fourth street north-
west. |
| Thomas Hayes..... | do | 29 | Laborer | 1240 New Hampshire avenue
northwest. |
| C. G. O'Brien..... | do | 27 | Painter | 819 First street northeast. |
| John Walker | Watchman | 51 | Brick-layer | 3271 Prospect street northwest. |

U 2.—ESTIMATES FOR THE FIRE DEPARTMENT FOR THE FISCAL YEAR
ENDING JUNE 30, 1890.WASHINGTON, *September 5, 1888.*

GENTLEMEN: I have the honor to submit my estimates for the expenses of the fire department for the fiscal year ending June 30, 1890:

| | |
|--|---------|
| Chief engineer | \$1,800 |
| Two assistant chief engineers (\$1,200 each) | 2,400 |
| One fire marshal | 1,000 |
| One clerk | 900 |
| Ten foremen (\$1,100 each) | 11,000 |
| Ten assistant foremen (\$900 each) | 9,000 |
| Eight engineers (\$1,050 each) | 8,400 |
| Eight firemen (\$840 each) | 6,720 |
| Two tillermen (\$40 each) | 1,680 |
| Twenty hostlers (\$840 each) | 16,800 |
| Eighty-four privates (\$800 each) | 67,200 |
| Six watchmen (\$600 each) | 3,600 |
| One veterinary surgeon | 400 |
| Total | 130,900 |

| | |
|--|--------|
| Repairs to engine-houses | 4,000 |
| Repairs to apparatus and new appliances | 3,500 |
| Hose | 5,000 |
| Fuel | 2,500 |
| Horses | 5,000 |
| Forage | 5,500 |
| Exchanging two engines | 8,000 |
| Altering seven hose-carriages | 2,200 |
| Purchase of chemical engine | 2,250 |
| Contingent expenses, including office, horse-shoeing, furniture, washing, oil,
medical and stable supplies, harness, blacksmithing, labor, gas, etc. | 8,000 |
| | 45,950 |

| | |
|---|--------|
| House, lot, and furniture for new truck company | 20,000 |
| Aerial turn-table truck | 3,500 |
| One foreman | 1,100 |
| One tillerman | 840 |
| One assistant foreman | 900 |
| Two hostlers | 1,680 |
| Seven privates (\$800 each) | 5,600 |
| Four horses | 1,000 |
| | 34,620 |

In estimating for a truck company to be located in the center of the city, I consider that I would be derelict in my duty did I not call your attention to the necessity of such a company, to be equipped with all the latest improved appliances, together with an aerial turn-table truck, that can be used upon the highest buildings which of late years have been and are being erected. The ladders now in use by the department are inadequate for the service demanded, as the longest in use are only about 69 feet, and would be of little avail, in case of fire, in the style of buildings as mentioned. And, again, where it is desired to locate the truck-house, it will be in the neighborhood of the principal hotels, theaters, lumber-yards, planing-mills, livery-stables, etc., as well as other large and inflammable buildings. The two truck companies as now situated are too far removed from the business center, to be able to render im-

mediate service in case of fire, and more especially would it be so when lives are endangered, and the most essential requisite to prevent the spread of fire and saving of life is dispatch.

In my estimates for twenty hostlers, with a compensation of \$840 per annum each, I desire to state that, since the formation of the paid fire department, privates have been detailed to perform the duty of hostlers, and have to perform the same labor as that of the regular hostlers, and as their pay has never been increased, I recommend that the increase be allowed them. Each company requires two hostlers.

In my recommendation for two additional privates to each engine company and one to each truck company, making twelve men to each company, I consider, for the more effectiveness of the working of the department, that the addition asked for is of the greatest importance, as the force as at present is entirely too limited.

In asking for an increase for repairs of the engine-houses, the sums heretofore appropriated have been insufficient for placing them in the condition that is necessary and for keeping them in repair. As is natural for old buildings, the wear and tear is greater every year.

In my report requesting an appropriation of \$2,200 for the purpose of altering seven hose carriages from the present old style to the latest pattern crane neck, by making the alterations it will be the means of placing in the department seven carriages that will be practically new and at a very small outlay, which, if left in their present condition, in the near future they would have to be replaced by new ones at perhaps a cost of \$6,000 or \$7,000.

I respectfully call your attention to the inadequacy of the number of engine companies in our city. We will have only eight when the new one, which is now being formed, goes into service, and the demand for two additional ones is greatly needed; and I recommend that Congress be asked for an appropriation sufficient for the formation of these companies, together with buildings and equipments. The large fire that recently occurred at Draper's planing-mill, on Ohio avenue, proved the necessity of additional force. The whole resources of the department were required for the extinguishment, and for several hours every other part of the city was left without fire protection, and such is always the case whenever we have a large fire. I inclose a slip showing the number of engines each of the principal cities have, and you will find several with less population than our city are better supplied.

Very respectfully,

JOSEPH PARRIS,
Chief Engineer Fire Department.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

FIRE DEPARTMENT NEEDS.

The discussion of the adequacy or inadequacy of Baltimore's fire department continues among insurance and business people. The need of a full-paid department, fire-boats, chemical engines, and other improved apparatus is insisted upon warmly by many persons who have given the subject much attention. The apparatus now in use is admitted to be of the best, but it is urged that more of it is needed. The table given below exhibits the population of twenty-four of the principal American cities, with the number of steam fire-engines in each. According to these figures Baltimore, which ranks fifth in population (Brooklyn not being included in the table), is exceeded in the number of its steam fire-engines by ten other cities. The table is as follows:

| Cities. | Population. | Fire-engines. |
|------------------------|-------------|---------------|
| Atlanta, Ga..... | 63,000 | 4 |
| Buffalo, N. Y..... | 225,000 | 21 |
| Chicago..... | 800,000 | 43 |
| Camden, N. J..... | 60,000 | 4 |
| Cincinnati..... | 325,000 | 20 |
| Cleveland, Ohio..... | 225,000 | 18 |
| Charleston, S. C..... | 60,000 | 8 |
| Detroit, Mich..... | 219,000 | 16 |
| Evansville, Ind..... | 52,000 | 3 |
| Indianapolis, Ind..... | 100,000 | 8 |
| Kansas City, Mo..... | 180,000 | 3 |
| Louisville, Ky..... | 175,000 | 13 |
| Memphis, Tenn..... | 74,000 | 6 |
| Milwaukee, Wis..... | 190,000 | 12 |
| Minneapolis, Minn..... | 200,000 | 12 |
| New Orleans..... | 216,000 | 20 |
| New York..... | 1,500,000 | 66 |
| Philadelphia..... | 951,000 | 39 |
| Saint Louis..... | 450,000 | 30 |
| Savannah..... | 60,000 | 4 |
| Washington, D. C..... | 230,000 | 8 |
| Lawrence, Mass..... | 38,845 | 5 |
| Boston..... | 400,000 | 34 |
| Baltimore..... | 417,000 | 14 |

U 3.—FIRE MARSHAL'S REPORT.

WASHINGTON, D. C., *July 1, 1888.*

DEAR SIR: I have the honor to transmit the following report of the transactions of this office for the fiscal year ending June 30, 1888. During the year I visited and inspected the scene of 174 fires for which alarms had been rung, also the scene of 108 local fires for which no alarm was sounded. A list of the causes for said fires, with the loss and insurance, will be found in this report; also number of stores visited and samples of illuminating oil collected and inspected, and the number of buildings visited and inspected which were reported in an unsafe condition and in danger from cause of fire; also report on the grade of kerosene oil placed on this market and offered for sale.

Total loss by fire, \$68,446; insurance, \$53,927. I visited and inspected six different tenements which were reported to me as being in an unsafe condition and in danger from cause of fire from defective flues, stove-pipes, and other causes, all of which have been attended to and put in a safe condition.

During the year I visited 238 stores where illuminating oil is kept on sale, and inspected samples of kerosene oil from each place, all of which, except in a few cases, proved to be of a very good quality. The regulations adopted by the Commissioners of the District have had the desired effect of driving from this market the low-grade, vile compounds which had been forced upon this community.

I am happy to state the difference in the percentage of low-grade oil this year from last year's report. In 1887, 47 per cent. was inferior, and of a very low and dangerous quality; this year only about 10 per cent., and this a much better article than that of the previous year, most of these samples being within a few degrees of proof.

Following will be found the number of fires and alarms from July 1, 1887, to June 30, 1888, with the causes and kind of buildings; also table showing the number of different causes.

Most respectfully, your obedient servant,

WM. O. DREW,
Fire Marshal.

JOSEPH PARRIS, Esq.,
Chief Engineer Fire Department.

P. S.—The fire at the Metropolitan Club house, which occurred on April 20 last, is not enumerated in this schedule, as it has not been yet adjusted; therefore I can give no estimate.

WM. O. D.

FIRE MARSHAL'S RECORD OF FIRES, DISTRICT OF COLUMBIA.

MONTH OF JULY, 1887.

| No. of fire. | Date. | Hour. | | Box. | Location. | Style of building. | How occupied. | Owner or occupant. | Origin of fire. | Age. | Insur-
ance. |
|--------------|-------|----------------|-------|----------|---|--------------------|--------------------------|--|----------------------|----------|-----------------|
| 1 | 1 | a. m. | p. m. | 523 | 13th and L streets SE | Brick | Dwelling | Otto Swartz. | Goat upsetting lamp | \$150 | |
| 2 | 2 | | 3.57 | 435 | 516 9th street SW | Frame | do | Hester Brooks | Burning rags | | |
| 3 | 2 | | 11.00 | 31 | 1739 G street NW | Brick | do | Geo. P. Baden | Accident | 800 | \$800 |
| 4 | 3 | | 1.36 | 12 | Indiana avenue and 1st street NW | Straw | do | Roadway | do | | |
| 5 | 4 | | 12.57 | 713 | High and Frederick streets, West Washington. | Frame | Kindling-wood mill | W. R. Turner. | Incendiary | 2,000 | 1,400 |
| 6 | 4 | | 4.47 | 35 | 1509 M street NW | do | Dwelling | Chas. Simpson | Fire-crackers | | |
| 7 | 4 | | 3.57 | 45 | 1227 4 1/2 street SW | do | Drug store | Henry Mitchell. | do | | |
| 8 | 5 | | 1.53 | 125 | 7th and D streets NW | Brick | Dry-goods store | Chas. Baum | Chimney | | |
| 9 | 8 | | 10.46 | 142 | 1239 Pa. avenue NW | do | Railroad office | Pennsylvania Railroad | Unknown | | |
| 10 | 9 | | 4.46 | 151 | 13th and C streets NW | do | Planing-mill | F. A. Belt | Smoke stack | 2,000 | 1,780 |
| 11 | 9 | | 6.57 | 17 | 480 Pa. avenue NW | do | Drug store | Stoff A. Cornwall | Incendiary | 25 | 25 |
| 12 | 13 | 10.31 | | 12 | 111 D street NW | do | Dwelling | T. S. Barbour. | Carelessness | 25 | |
| 13 | 13 | | 1.10 | 41 | 201 4 1/2 street SW | Frame | Summer kitchen | John Faise | do | | |
| 14 | 14 | 1.22 | | 24 | 35 and 37 O street NW | do | Dwellings | Jane Jones and Will-
iam and L. West. | Lamp explosion | 700 | 500 |
| 15 | 15 | | 9.22 | 147 | 919 15th street NW | do | do | Thos. H. Dorsey | do | 50 | 25 |
| 16 | 16 | | 11.32 | 417 | 14th and C streets SW | do | Quarter-master
depot. | U. S. Government | Accident | | |
| 17 | 17 | 3 | | 71 | 3020 M street NW | Brick | Cigar manufact-
ory. | A. M. Ubbhoff | do | 340 | 340 |
| 18 | 20 | | | | | | | | | | |
| 19 | 21 | 11.27
10.42 | | 24
19 | 1417 5th street NW
437 N. Jersey avenue NW | Frame
Brick | Wood-shed
Dwelling | Henry Taylor
Jane DeGraw | Hot ashes
Unknown | 10
10 | 10
10 |
| | | | | | | | | | | 6,110 | 4,895 |

Local or still alarms.

| | | | | | | | | | | | |
|---|----|--|--|--|-------------------------------------|-------|-----------------|--------------|----------------------------|-----|----|
| 1 | 10 | | | | 6 M street NE | Brick | Stable | R. C. Duff | Spontaneous combustion | 100 | 50 |
| 2 | 13 | | | | New Jersey avenue and 2d street NE. | | Brush and weeds | | Unknown | | |
| 3 | 13 | | | | 437 N. avenue NW | Brick | Dwelling | Jane DeGraw | Incendiary | 50 | |
| 4 | 14 | | | | 1146 20th street NW | Frame | do | George Smith | Lamp explosion | 30 | |
| 5 | 16 | | | | 405 G street NW | Brick | do | M. McCabe | Child playing with matches | 10 | |
| 6 | 30 | | | | 1314 E street SE | | | | Burning brush | | |

| | | | | | | | |
|---|----|------------------|-------|---------------|------------------------|---------------|--------|
| 7 | 30 | 3108 M street NW | Brick | Tin and stove | M. C. Mitchell | Carelessness | |
| 7 | 2 | Champlain avenue | Shed | | Beckwith & Quackenbush | Accident | |
| 7 | 5 | Tree, Pa. avenue | | | | Electric wire | |
| | | | | | | | 190 50 |

MONTH OF AUGUST, 1887.

| | | | | | | | | |
|----|----|--|-----------------|--|--------------------------------|----------------------------|--------|-------|
| 1 | 1 | 9th and Water streets SW | Brick | Planing-mill | Wimsatt & Uhler | Hot-air drum | 500 | 100 |
| 2 | 3 | Pierce Court N and O, 4 and 1st streets SW | Frames | Dwellings | C. Barnes and E. Hoyt | Incendiary | 350 | 350 |
| 3 | 6 | 222 E street NW | do | Wood-shed | B. Washington | Child playing with matches | | |
| 4 | 7 | 1344 30th street NW | Brick | Grocery store | W. E. Bell | Incendiary | 875 | 875 |
| 5 | 8 | 1209 and 1211 26th street NW | Frames | Dwellings | L. Henderson | Carelessness | 300 | |
| 6 | 9 | 627 and 629 G street NW | Brick | Livery stable | John H. Gheen | Accident | | |
| 7 | 9 | 1927 I street NW | Frame | Furniture store | M. Colman | Child playing with matches | | |
| 8 | 12 | 1542 N. Cap. street NW | Brick | Grocery | F. I. Whitney | Upsetting lamp | | |
| 9 | 13 | 490 F street SW | do | Dwelling | Thomas Keys | Throwing lamp at wife | | |
| 10 | 14 | 209 to 227 and 218 to 226 7th and 8th streets SW | Brick and frame | Feed and junk store, dwellings and sheds | N. Brewer, H. Baum, and others | Incendiary | 9,000 | 4,963 |
| 11 | 17 | 14th and I streets NE | Railroad cars | On Y, smash-up | Baltimore and Ohio Railroad | | | |
| 12 | 17 | Alley E and F, 9th and 10th streets SW | Frame | Stable | Stephenson Bros | Accident | | |
| 13 | 20 | 3107 K street NW | do | Shed | Beckwith & Middleton | Sparks from furnace | 20 | 20 |
| 14 | 25 | 27th between I and K streets NW | Brick | Planing-mill | Dyer & Co | do | | |
| 15 | 25 | 435 M street NW | Frame | Wood-shed | E. H. Bruner | Incendiary | | |
| 16 | 29 | 617 23d street NW | do | Dwelling | C. L. Kelsey | Child playing with matches | 100 | 50 |
| 17 | 31 | 740 10th street SE | Brick | Stable | Fred. Henderson | Incendiary | 100 | 100 |
| | | | | | | | 11,245 | 6,468 |

Local or still alarms.

| | | | | | | | | |
|---|----|-------------------------------------|-------|------------|----------------|---------------|-----|-----|
| 1 | 2 | 413 G street NW | Brick | Dwelling | Mrs. V. DeWitt | Burning tar | 400 | 400 |
| 2 | 3 | Dumbarton avenue and 30th street NW | | | | | | |
| 3 | 5 | 1203 C street NW | Brick | Restaurant | I. Richardson | Burning paper | | |
| 4 | 8 | 226 F street SW | Frame | Stable | Joseph Lee | Unknown | | |
| 5 | 10 | 218 Mass. avenue NW | do | Dwelling | F. Furgerson | Accident | | |

MONTH OF AUGUST, 1887—Continued.

Local or still alarms.

| No. of fire. | No. Date. | Hour. | Box. | Location. | Style of building. | How occupied. | Owner or occupant. | Origin of fire. | Dam- age. | Insur- ance. |
|--------------|-----------|---------------|-------|---------------------------------------|--------------------|---|--------------------|--------------------|-----------|--------------|
| 6 | 13 | a. m.
4.44 | | 319 12th street NW | Brick | Gas fitters and plumbers' fur- nishing house. | H. McShane & Co. | Accident | | |
| 7 | 14 | ..... | ..... | 209 7th street SW | Frame | Feed store | N. Brewer | Rekindling of fire | ..... | ..... |
| 8 | 19 | 5.44 | ..... | Alley F and G, 1st and 2d streets NW. | do | Dwelling | Nancy Jones | Accident | ..... | ..... |
| 9 | 31 | 6.37 | ..... | 1618 11th street NW | do | do | Sally Boyer | Chimney | ..... | ..... |
| | | 4.31 | ..... |  |  |  |  |  | \$400 | \$400 |

MONTH OF SEPTEMBER, 1887.

| | | | | | | | | | | |
|---|----|-------|-----|---|-------|----------------|--------------------|------------------------|-------|-------|
| 1 | 1 | 8.28 | 17 | Alley 3d and 4½ streets and Pa. and Mo. avenues NW. | Brick | Stable | Mathew Snow | Spontaneous combustion | 100 | 25 |
| 2 | 16 | 3.26 | 625 | 42 P street NE | Frame | Dwelling | K. E. Rothchilds | Chimney | ..... | ..... |
| 3 | 22 | 10.54 | 146 | 15th and New York avenue NW. | Brick | Hotel | C. C. Lefler & Co. | Incendiary | ..... | ..... |
| 4 | 23 | 8.25 | 237 | 12th and R. I. avenue NW. | Frame | Wood-yard | P. Pollard | Furnace | 200 | ..... |
| 5 | 24 | 10.04 | 127 | 730 Seventh street NW | Brick | Crockery store | H. Horwitz | Chimney | ..... | ..... |
| 6 | 26 | 7.09 | 241 | 1324 Vermont avenue NW | do | Stable | C. B. Jewell | Unknown | 10 | 10 |
| 7 | 30 | 6.20 | 71 | 2825 M street NW | do | Grocery | I. R. Reynolds | Accident | 20 | 20 |
| | | | | | | | | | 330 | 55 |

Local or still alarms.

| | | | | | | | | | | |
|---|----|-------|-------|--|---------|------------|--------------|------------------|-------|-------|
| 1 | 1 | 12.32 | ..... | 445 Prathers' alley NW | Frame | Dwelling | W. Diggins | Stove-pipe | ..... | ..... |
| 2 | 2 | 12.36 | ..... | L and M and 1st and N. Cap. streets NW. | Rubbish | Vacant lot | ..... | ..... | 5 | ..... |
| 3 | 3 | 1.29 | ..... | Alley 6th and 7th and K and L streets S W. | Frame | Dwelling | Jane Lawson | Stove-pipe | ..... | ..... |
| 4 | 10 | 11.55 | ..... | 1327 32d street NW. | Brick | do | John Simmons | Defective hearth | ..... | ..... |
| 5 | 11 | 6.46 | ..... | 25 5th street SE | do | do | Dr. McKim | Latrobe stove | ..... | ..... |
| 6 | 14 | 5.14 | ..... | 816 F street NW | do | Office | Meyers & Co | Chimney | ..... | ..... |

| | | | | | | | | |
|---|----|-------|------------------|-------|----------|---------------------------------|---------|----|
| 7 | 16 | 5.23 | 1521 K street NW | do | Stable | George B. Loring | Unknown | 50 |
| 8 | 18 | 11.33 | 813 3d street NW | Frame | Dwelling | A. Leegershoff | Gas-jet | |
| 9 | 21 | 7.14 | 1003 F street NW | Stone | Offices | Equitable Building Association. | Furnace | 55 |

MONTH OF OCTOBER, 1887.

| | | | | | | | | |
|----|-----|-------|--------------------------|-------|-------------|--------------------------|------------------------|-----------|
| 1 | 517 | 4.20 | 3d and D streets SE | Frame | Stable | George Kerherst | Unknown | |
| 2 | 72 | | 2716 O street NW, rear | do | do | Louis Johnson | Incendiary | 300 |
| 3 | 523 | 1.53 | 908 10th street SE | do | Dwelling | Charles Bladen | Defect flue | |
| 4 | 53 | 3.07 | 431 2d street SE | do | do | Fannie Crown | Chimney | |
| 5 | 151 | 1.22 | 320 13th street NW | Brick | Brass works | Thos. Somerville & Sons. | Spontaneous combustion | 500 200 |
| 6 | 15 | | 113 Purdy's Court NW | Frame | Dwelling | Agnes Martin | Incendiary | 15 |
| 7 | 714 | 2.27 | 3053 P street NW | do | Wood shed | Joseph E. Libby | Hot ashes | 100 25 |
| 8 | 713 | 5.30 | 1811 35th street NW | do | Dwelling | Columbus Thomas | Furnace | 50 50 |
| 9 | 129 | | 803 D street NW | Brick | Cigar store | George A. Scott | Hot ashes | |
| 10 | 731 | 11.01 | 1022 Jefferson street NW | Frame | Cooper shop | Ambrose Gosnell | Incendiary | 400 250 |
| | | | | | | | | 1,365 540 |

Local or still alarms.

| | | | | | | | | |
|---|------|------|----------------|-------|------------|----------------|--------------------|---------|
| 1 | 427 | 7.48 | I street NW | Frame | Dwelling | John Salter | Incendiary | |
| 2 | 434 | 9.47 | 12th street NE | do | do | Sarah Brown | Chimney | |
| 3 | 227 | 6.05 | 13th street NW | do | do | Z. Mitchell | Carelessness | 10 |
| 4 | 3308 | 6.32 | M street NW | do | Stable | Samuel Howard | Accident | |
| 5 | 1230 | 7.31 | Pa. avenue NW | Brick | Restaurant | J. H. De Atley | Stove-pipe | 10 10 |
| 6 | 1363 | | Ohio avenue NW | Frame | Dwelling | M. J. Johnson | do | 100 100 |
| 7 | 1416 | | 31st street NW | Brick | do | C. H. Fickling | Gasoline explosion | |
| 8 | 939 | | Pa. avenue NW | do | Shoe store | Dalton & Co | Defective flue | |
| 9 | 456 | 3.15 | Va. avenue SW | Frame | Dwelling | M. Bridwell | Chimney | |
| | | | | | | | | 120 110 |

MONTH OF NOVEMBER, 1887.

| | | | | | | | | |
|---|------|------|--------------------------|-------|------------|-----------------------------|-------------------------|---------|
| 1 | 1743 | 9.19 | Johnson avenue NW | Frame | Wood-shed | F. Tedball | Boys smoking cigarettes | 100 100 |
| 2 | 62 | | N. Cap. and G streets NW | | Tar-kettle | A. L. Barber | Tar | |
| 3 | 143 | 5.30 | 907 13th street NW | Brick | Dwelling | A. C. Livingston | Unknown | 10 |
| 4 | 417 | 7.04 | 15th and C streets SW | | Hay stack | United States Gov. ernment. | Incendiary | 10 |

| | | | | | | | | | | |
|----|----|-------|-----|---------------------------|-------|-----------------|----------------|-------------------|-------|-------|
| 9 | 7 | 1.34 | 516 | Rear 329 Pa. avenue SE | Brick | Kettle tar | J. C. Poynton | Unknown | 300 | 150 |
| 10 | 9 | 1.24 | 121 | 340 Louisiana avenue NW | do | Dwelling | Sallie Green | Lamp explosion | | |
| 11 | 9 | 7.38 | 41 | 421 Armory street SW | Frame | Wood-shed | Stephen Wood | Incendiary | | |
| 12 | 10 | 9.49 | 21 | 217 K street NW | Brick | Dwelling | J. H. Hopgood | Gasoline | | |
| 13 | 12 | 5.37 | 253 | 1920 16th street NW | Brick | | | | | |
| 14 | 12 | 6.57 | 143 | False alarm | | | | | | |
| 15 | 13 | 5.33 | 127 | 911 7th street NW | Brick | Dwelling | Annie Oliver | Unknown | 75 | 25 |
| 16 | 18 | 11.17 | 245 | 1805 14th street NW | do | Feed store | J. B. Brown | Incendiary | 1,000 | 1,000 |
| 17 | 24 | 5.32 | 518 | 745 and 747 8th street SE | do | Dry goods store | N. Blum | Gas jet in window | 1,000 | 760 |
| 18 | 28 | 7.02 | 625 | County | Frame | Dwelling | J. Schried | Chimney | | |
| 19 | 29 | 10.51 | 239 | 2231 12th street NW | do | do | M. Bowen | do | | |
| 20 | 29 | 12.16 | 324 | 2419 Pa. avenue NW | do | Wood-shed | J. L. Thompson | Hot ashes | 10 | |
| 21 | 31 | 10.30 | 712 | 3528 P street NW | do | Dwelling | J. Carroll | Chimney | | |
| | | | | | | | | | 3,750 | 3,245 |

Local or silent alarms.

| | | | | | | | | | | |
|---|----|-------|--|--------------------------------|-------|-----------------------------|---------------------|----------------------|-------|-------|
| 1 | 1 | | | Industrial Home School | Frame | Hot-house | District government | Defective flue | 400 | |
| 2 | 3 | | | Harewood Road, county | do | Dwelling | W. B. Noble | Defective fire-place | 5,000 | 3,000 |
| 3 | 8 | 11.46 | | 14th and E streets, SE | do | Hot-house | C. M. Schuckler | Defective flue | 300 | 100 |
| 4 | 9 | 4.49 | | 438 9th streets NW | Brick | Hardware store | F. C. Hopkins | Gasoline | | |
| 5 | 14 | | | 464 7th street SW | Frame | Dwelling | W. S. Anderson | Defective flue | | |
| 6 | 20 | 7.05 | | Mount Pleasant | do | do | Chapin Brown | Defective fire-place | 30 | 30 |
| 7 | 24 | 5.41 | | 1038 7th street NW | Brick | Picture-frame manufacturing | Thos. Veerhoff | Defective flue | | |
| 8 | 30 | 7.38 | | 465 F street SW | do | Dwelling | William Henry | do | | |
| 9 | 30 | 2.10 | | 4th street and Mass. avenue NW | Frame | Tin and stove store | J. F. Flaherty | Incendiary | 5 | 5 |
| | | | | | | | | | 5,735 | 3,135 |

MONTH OF JANUARY, 1888

| | | | | | | | | | | |
|---|----|-------|-----|------------------------------------|-------|-----------------|----------------|----------------|-------|-------|
| 1 | 1 | 11.51 | 137 | 916 N. Y. avenue NW | Brick | Dwelling | Samuel Mobry | Chimney | | |
| 2 | 7 | 7.20 | 625 | 1st and O streets NW | Frame | Grocery | John Keefe | Lamp explosion | | |
| 3 | 12 | 9.34 | 523 | K street, between 14th and 15th SE | do | Dwelling | William Biggs | Defective flue | 50 | |
| 4 | 12 | 11.35 | 129 | 436 9th street NW | Brick | Provision store | Fred. Herbert | Hot ashes | 700 | 700 |
| 5 | 16 | 6.05 | 146 | 1506 H street NW | do | Dwelling | C. M. Champion | Chimney | | |
| 6 | 16 | 11.17 | 39 | 1227 20th street NW | do | Stable | C. Heinrich | Unknown | 2,650 | 2,431 |
| 7 | 17 | 1.29 | 17 | 321 Pa. avenue NW | Frame | Wood-shed | J. B. Murray | Incendiary | 50 | |
| 8 | 17 | 10.11 | 314 | 2142 G street NW | Brick | Dwelling | W. D. Barber | Hot ashes | 50 | |
| 9 | 17 | 7.03 | 125 | 401 7th street NW | do | Hat store | Henry Franc | Furnace | 400 | 400 |

MONTH OF JANUARY, 1888—Continued.

| No. of fire. | Date. | Hour. | | Box. | Location. | Style of building. | How occupied. | Owner or occupant. | Origin of fire. | Dam- age. | Insur- ance. |
|--------------|-------|-------|-------|------|----------------------|--------------------|---------------|--------------------|------------------|-----------|--------------|
| 10 | 18 | a. m. | p. m. | 237 | 1600 13th street NW | do | Dwelling | I. G. Armes | Chimney | | |
| 11 | 20 | | 4. 47 | 217 | 806 P street NW | do | do | S. Thomas | do | | |
| 12 | 20 | | 3. 15 | 21 | 78 L street NW | do | do | L. O'Neil | Latrobe | \$15 | \$15 |
| 12 | 21 | | 5. 20 | 129 | 803 Market Space NW | do | Offices | S. P. Moses | Saw-dust | | |
| 14 | 22 | 8. 30 | | 35 | 1154 17th street NW | do | Dwelling | R. E. Bradley | Defective hearth | 10 | 10 |
| 15 | 23 | | 6. 33 | 21 | | | | | Chimney | | |
| 16 | 25 | | 9. 59 | 518 | | | | | | | |
| 17 | 27 | 9. 03 | | 148 | 918 14th street NW | Brick | Dwelling | A. Hendricks | do | | |
| 18 | 28 | | 2. 32 | 135 | 604 11th street NW | do | do | E. Brasselman | Defective hearth | 10 | 10 |
| 19 | 29 | | 4. 17 | 148 | 1411 Mass. avenue NW | do | do | L. I. Davis | do | 10 | 10 |
| | | | 7. 45 | | | | | | do | 10 | 10 |
| | | | | | | | | | | 3, 955 | 3, 586 |

Local or still alarms.

| | | | | | | | | | | | |
|---|----|--------|-------|--|-----------------------|-------|----------------|-----------------|------------------|----|----|
| 1 | 1 | | 5. 20 | | 1326 7th street NW | Brick | Clothing store | Henry King | Unknown | | |
| 2 | 7 | 11. 47 | | | 622 Mass. avenue NW | Frame | Dwelling | J. Henson | Defective flue | | |
| 3 | 9 | 6. 59 | | | 14th and B streets SW | Brick | Machine shop | Pettit & Dripps | Boiler explosion | | |
| 4 | 13 | 11. 30 | | | 603 I street NW | do | Dwelling | D. A. Grovesner | Accident | 5 | 5 |
| 5 | 14 | 11. 45 | | | 1008 4th street NW | Frame | do | M. Jackson | Stove | 25 | 2 |
| | | | | | | | | | | 30 | 30 |

MONTH OF FEBRUARY, 1888.

| | | | | | | | | | | | |
|----|----|--------|--------|-----|-------------------------|-------|----------------|-----------------|----------------------------|--------|--------|
| 1 | 1 | | 4. 07 | 129 | 931 Pa. avenue NW | Brick | Clothing store | E. P. Barnum | Furnace | 50 | 50 |
| 2 | 1 | | 10. 42 | 246 | 1401 Boundary street NW | Frame | Grocery | John Murray | Stove-pipe | 150 | 150 |
| 3 | 2 | | 12. 27 | 72 | 2801 O street NW | Brick | Dwelling | William M. Mew | Unknown | 100 | 100 |
| 4 | 9 | 12. 39 | | 12 | False alarm | | | | | | |
| 5 | 10 | | 7. 40 | 41 | 349 Md. avenue SW | Brick | Minor school | Training school | Furnace | 1, 500 | 1, 500 |
| 6 | 13 | 10. 47 | | 415 | 611 I street SW | Frame | Shoe shop | L. Loveless | Sparks from chimney | 30 | 30 |
| 7 | 14 | | 12. 03 | 425 | 124 2d street SW | do | Dwelling | I. S. Hawkins | Child playing with matches | 10 | 10 |
| 8 | 15 | | 3. 08 | 321 | 2431 F street NW | do | do | G. W. Linkins | Sparks from chimney | | |
| 9 | 16 | 10. 57 | | 151 | 407 11th street NW | Brick | do | G. Hauptman | Chimney | | |
| 10 | 19 | | 8. 10 | 68 | 1000 4th street NE | do | do | I. Holloran | Unknown | 100 | 100 |

| | | | | | | | | | |
|----|----|------|-----|--|-------|-----------------|---------------|--------------|-------|
| 11 | 24 | 4.19 | 324 | 2317 Pa. avenue NW | do | Barber shop | C. S. Johnson | do | 300 |
| 12 | 25 | 8.13 | 713 | 3167 Caton street NW | Frame | Dwelling | F. Boarman | Carelessness | |
| 13 | 26 | 9.46 | 612 | 4th street, between Md. avenue and B street NE | do | do | J. Neff | Incendiary | |
| 14 | 28 | 1.38 | 412 | 305 7th street SW | Brick | Provision store | Webster & Co | Accident | 200 |
| | | | | | | | | | 2,440 |
| | | | | | | | | | 2,030 |

Local or still alarms.

| | | | | | | | | | |
|---|----|-------|---------------------------|-------|----------|--------------|------------------|----|----|
| 1 | 5 | 3 | False alarm | Frame | Dwelling | S. Lawson | Chimney | | |
| 2 | 10 | 3.08 | Alley, B and C streets NW | do | do | J. E. Libbey | Carelessness | | |
| 3 | 11 | 8.58 | 3003 O street NW | Brick | do | H. H. Smith | Defective hearth | 15 | 15 |
| 4 | 15 | 1.24 | 1613 13th street NW | do | do | Rutherford | Latrobe stove | 10 | 10 |
| 5 | 20 | 11.25 | 519 13th street NW | Brick | do | Mary King | Defective flue | | |
| 6 | 22 | 8.19 | 1317 22d street NW | Brick | Dwelling | | | | |
| 7 | 27 | | 1423 Pierce street NW | Brick | Dwelling | | | | |
| | | | | | | | | | 25 |
| | | | | | | | | | 25 |

MONTH OF MARCH, 1888.

| | | | | | | | | | | |
|----|----|-------|-----|----------------------------------|-------|-----------------|-------------------|----------------------------|-------|-------|
| 1 | 2 | 11.17 | 246 | 14th and Boundary streets NW | Frame | Grocery | John Murray | Unknown | 300 | 300 |
| 2 | 2 | 3.14 | 34 | Rear 1017 17th street NW | Brick | Stable | William F. Downey | do | 50 | 50 |
| 3 | 7 | 9.28 | 612 | 433 3d street NE | do | Dwelling | A. F. Casey | Hot ashes | | |
| 4 | 8 | 12.01 | 134 | 426 10th street NW | do | Grocery | L. Steinman | Oil stove | 250 | |
| 5 | 8 | 6.25 | 125 | 631 F street NW | do | Offices | William D. Porter | Accident | 50 | 50 |
| 6 | 8 | 9.51 | 721 | M street NW | do | Stable | W. H. Tenny & Son | Coal-oil lamp | 500 | |
| 7 | 9 | 11.15 | 254 | 1645 19th street NW | do | Dwelling | F. I. Renehan | Child playing with matches | 300 | 300 |
| 8 | 10 | 8.30 | 123 | Rear 808 5th street NW | Frame | Wood-shed | H. Reiginstien | Hot ashes | 25 | 25 |
| 9 | 17 | 3.44 | 124 | False alarm | Frame | Dwellings | Thomas Reilly | Stove-pipe | | |
| 10 | 19 | 9.57 | 43 | 319, 321, 323, 325 L street SW | Frame | Dwellings | | | 300 | |
| 11 | 20 | 2.05 | 213 | 1719 6th street NW | Brick | Dwelling | M. Slater | Child playing with matches | | |
| 12 | 22 | 7.34 | 318 | 1210 18th street NW | do | do | | Chimney | 20 | |
| 13 | 26 | 1.53 | 132 | 816 K street NW | Frame | do | W. H. Duffy* | Children playing with fire | | |
| 14 | 27 | 7.14 | 628 | 17th and D street NE | do | do | C. Echarl | Defective flue | 400 | 250 |
| 15 | 27 | 8.04 | 25 | 629 New York avenue NW | do | Blacksmith shop | W. T. Wilson | Sparks from forge | 140 | 140 |
| 16 | 30 | 12.16 | 12 | Indiana avenue and 3d street, NW | do | Dwelling | T. W. Smith | Incendiary | | |
| 17 | 31 | 1.48 | 127 | 913 7th street NW | Brick | Furniture store | W. Z. Partello | Accident | | |
| | | | | | | | | | 2,335 | 1,115 |

* Two of Mr. Duffy's children overcome by smoke; one died.

MONTH OF MARCH, 1888—Continued.

Local or still alarms.

| No. of fire. | Date. | Hour. | | Box. | Location. | Style of building. | How occupied. | Owner or occupant. | Origin of fire. | Dam-
age. | Insur-
ance. |
|--------------|-------|---------------|-------|------|--|--------------------|---------------|---------------------------------------|------------------|--------------|-----------------|
| 1 | 1 | a. m. | p. m. | | 1442 S street NW. | Brick | Dwelling | John Bigelow | Chimney | | |
| 2 | 5 | 7.13
11 45 | | | Va. avenue, 6th and 7th streets SW. | Frame | Palace car | Pullman Company. | Overheated stove | \$300 | |
| 3 | 5 | | 5.42 | | Alley, Mass. avenue and G street and 2d and 3d NW. | do | Dwelling | Mary Saunders | Stove | | |
| 4 | 6 | 8.38 | | | Court between Vt. avenue and 9th street NW. | do | do | William Green | Defective flue | | |
| 5 | 9 | | | | 1822 K street NW | do | do | W. E. Abbott | Rubbish | | |
| 6 | 10 | 11.46 | | | 1732 N street NW | Brick | do | Dr. Snowden | Defective flue | | |
| 7 | 12 | | 4.43 | | 124 12th street NE | do | do | Peter Klotz | Chimney | | |
| 8 | 12 | | 7.50 | | do | do | do | do | do | | |
| 9 | 13 | 7.10 | | | 705 N street NW | do | do | C. C. Cole | Furnace | 550 | \$550 |
| 10 | 13 | 10.20 | | | 1311 14th street NW | do | do | Raft | Defective hearth | 25 | 25 |
| 11 | 13 | 10.55 | | | 504 4½ street SW | do | do | John Dawson | Chimney | | |
| 12 | 14 | 8.31 | | | 6th and C streets SW | Wood and iron | Car-shed | Baltimore & Potomac Railroad Company. | Stove-pipe | | |
| 13 | 14 | | 6.52 | | 433 Ridge street NW | Frame | Dwelling | S. Brown | do | | |
| 14 | 15 | | 3.56 | | 1412 F street NW | Brick | Offices | H. Willard | Furnace | 10 | 10 |
| 15 | 23 | 8.24 | | | 2031 I street NW | do | Dwelling | | Chimney | | |
| | | | | | | | | | | 885 | 585 |

MONTH OF APRIL, 1888.

| | | | | | | | | | | | |
|----|----|-------|-------|-----|--|-------|--------------------------|-----------------------|------------------------|-----|-----|
| 1 | 3 | 7.02 | | 41 | 111 3d street SW | Frame | Dwelling | John Bell | Incendiary | 10 | |
| 2 | 6 | 11.42 | | 516 | 409 A street SE | Brick | do | J. D. Kelliher | Child with matches | 300 | 300 |
| 3 | 6 | | 12.23 | 137 | 942 N. Y. avenue NW | do | do | E. Brooks | Explosion of gasoline | 100 | 50 |
| 4 | 7 | | 12.40 | 62 | 16 I street NE | do | do | G. W. Chase | Spontaneous combustion | 10 | 10 |
| 5 | 8 | | 3.34 | 413 | 710 F street SW | Frame | do | Joseph Tippet | Child with matches | | |
| 6 | 13 | | 7.29 | 134 | 520 10th street NW | Brick | Builders materials | Otto Duker | Unknown | 75 | 75 |
| 7 | 14 | | 10.55 | 214 | 2225 7th street NW | Frame | Dwelling | Nora Jackson | Incendiary | 50 | |
| 8 | 15 | 4.03 | | 239 | Rear V street NW, Nos. 1013, 1015, 1017, 1019, 1021. | do | Wood-sheds | W. Carroll and others | do | 100 | 100 |
| 9 | 16 | | 11.15 | 129 | 423 10th street NW | do | do | J. F. Given | Accident | 10 | |
| 10 | 18 | 9.42 | | 142 | 14 Foundry alley | Brick | Dwelling | E. Tucker | Overheated stove | 25 | 25 |
| 11 | 20 | 6.47 | | 31 | 1700 H street NW | do | Metropolitan Club House. | | Defective flue | | |

| | | | | | | | | | | |
|----|----|-------|-----|--------------------|----|------------|------------------|----------|-----|-----|
| 12 | 21 | 12.39 | 36 | 1831 G street NW | do | Dwelling | Amelia Hunt | Accident | 10 | 10 |
| 13 | 27 | 2.14 | 142 | 1110 F street NW | do | do | W. E. Metzgerdt | do | | |
| 14 | 29 | 11.52 | 151 | 417 13th street NW | do | Restaurant | Godfrey & Holden | Chimney | | |
| | | | | | | | | | 690 | 540 |

H. Ex. 1, pt. 6—31

Local or still alarms.

| | | | | | | | | | | |
|---|----|-------|-------|-------------------------------------|-------|------------|------------------|------------|-----|-----|
| 1 | 2 | 7.28 | | 501 L street SW | Frame | Dwelling | Theodore Collins | Chimney | | |
| 2 | 4 | 11.02 | | 1806 K street NW | Brick | do | E. S. Kidwell | Accident | 150 | 95 |
| 3 | 6 | | 8.42 | 1000 Conn. avenue NW | do | do | Samuel Coleman | Lamp | | |
| 4 | 7 | 12.21 | | 1754 K street NW | Frame | do | R. Williams | Chimney | | |
| 5 | 11 | | 9.17 | False alarm | | | | | | |
| 6 | 15 | | 10.34 | Alley 2d between F and G streets NW | Frame | Dwelling | James Digney | Incendiary | 10 | 10 |
| 7 | 24 | | 7.35 | 1222 Pa. avenue NW | Brick | Restaurant | J. H. DeAtley | Accident | | |
| 8 | 30 | | 1.32 | 2013 N street NW | Frame | Kitchen | J. H. Gates | Stovepipe | 15 | 15 |
| | | | | | | | | | 175 | 120 |

MONTH OF MAY, 1888.

| | | | | | | | | | | |
|---|----|-------|-----|---|-------|----------------------|----------------------------|------------------------|-------|-------|
| 1 | 3 | 9.42 | 237 | Alley between 11th and 12th, R. I. avenue and G street NW | Frame | Dwelling | Sarah Jones | Rubbish | | |
| 2 | 4 | | 236 | 1319 Vt. avenue NW | Brick | do | J. W. Barnes | Child with matches | 100 | 100 |
| 3 | 6 | 10.54 | 628 | 14th and Boundary streets NE | Frame | Engine-room | Brick Machine Company. | Sparks from stack | 75 | |
| 4 | 8 | | 71 | 28th street and Canal NW | do | Dry dock | Chesapeake and Ohio Canal. | Tar-kettle | | |
| 5 | 9 | 1.34 | 217 | 1501 9th street NW | Brick | Drug store | E. P. Hall | Unknown | 2,600 | 2,600 |
| 6 | 11 | | 151 | 1223 Pa. avenue NW | do | Confectionery store. | B. W. Carpenter | Furnace | 1,192 | 1,192 |
| 7 | 13 | | 513 | 412 8th street SE | do | Furniture store | H. L. Trice | Spontaneous combustion | 680 | 680 |
| | | | | | | | | | 4,647 | 4,572 |

Local or still alarms.

| | | | | | | | | | | |
|---|----|------|------|---------------------|-------|------------|--------------------|----------|----|----|
| 1 | 9 | | 9.32 | 931 R. I. avenue NW | Brick | Dwelling | William Steiney | Gas jet | | |
| 2 | 10 | 4.24 | | 1006 E street NW | do | Law school | Carusi & Claughton | Accident | 75 | 75 |

484 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

A.—Statement of number of fires, loss, and insurance for year ending June 30, 1888.

| Month. | Fires for which alarms were given. | | | Local alarms. | | |
|-----------------|------------------------------------|---------|-----------|---------------|-------|------------|
| | No. of fires. | Loss. | Insurance | No. of fires. | Loss. | Insurance. |
| 1887. | | | | | | |
| July | 19 | \$6,300 | \$4,945 | 10 | \$190 | \$50 |
| August | 17 | 11,245 | 6,858 | 9 | 400 | 400 |
| September | 7 | 330 | 55 | 9 | 55 | ..... |
| October | 10 | 1,365 | 540 | 9 | 120 | 110 |
| November | 16 | 6,380 | 5,960 | 4 | 105 | 100 |
| December | 21 | 3,750 | 3,245 | 9 | 5,735 | 3,135 |
| 1888. | | | | | | |
| January | 19 | 3,955 | 3,586 | 11 | 150 | 50 |
| February | 14 | 2,440 | 2,030 | 7 | 25 | 25 |
| March | 17 | 2,315 | 1,115 | 15 | 885 | 585 |
| April | 14 | 690 | 570 | 8 | 175 | 120 |
| May | 7 | 4,647 | 4,572 | 7 | 95 | 80 |
| June | 13 | 16,961 | 15,726 | 10 | 133 | 70 |
| Total | 174 | 60,378 | 49,202 | 108 | 8,068 | 4,725 |

B.—Record showing cause of fires and alarms for the year ending June 30, 1888.

| Cause. | Number. | Cause. | Number. |
|-------------------------------------|---------|------------------------------------|---------|
| Upsetting lamp | 3 | Smoky chimney | 2 |
| Waste paper | 1 | Stove-pipe | 10 |
| Rekindling of former fire | 1 | Furnace-pipe | 8 |
| Burning rubbish | 5 | Defective hearth | 10 |
| Accident | 26 | Stove | 2 |
| Incendiary | 28 | Gas-jet | 6 |
| Fire-crackers | 2 | Smoky furnace | 2 |
| Chimney | 34 | Defective flue | 1 |
| Unknown | 24 | Gasoline explosion | 1 |
| Sparks from smoke-stack | 5 | Boys smoking cigarettes | 6 |
| Carelessness | 10 | False alarm | 2 |
| Lamp explosion | 7 | Sparks from forge | 2 |
| Smoking out mosquitoes | 1 | Candle | 2 |
| Hot ashes | 11 | Cigar stump in wood spittoon | 1 |
| Spontaneous combustion | 7 | Boiler explosion | 1 |
| Children playing with matches | 16 | Oil stove | 2 |
| Tar kettle | 6 | Candy furnace | 1 |
| Hot-air drum | 1 | Electric wire | 2 |
| Throwing lamp at wife | 1 | Smoking pipe | 1 |
| Collision of railroad cars | 1 | Burst gas main | 1 |
| Sparks from furnace | 2 | | |

C.—Kind of buildings where the fires originated.

| Buildings. | Frame. | Brick. | Total. |
|-----------------------------------|--------|--------|--------|
| Dwelling | 70 | 72 | 142 |
| Kindling-wood mill | 1 | ..... | 1 |
| Drug store | 1 | 2 | 3 |
| Dry-goods store ..... | ..... | 2 | 2 |
| Railroad office ..... | ..... | 1 | 1 |
| Planing mill ..... | ..... | 3 | 3 |
| Quartermaster's store-house | 1 | ..... | 1 |
| Cigar manufactory ..... | ..... | 1 | 1 |
| Wood shed | 17 | ..... | 17 |
| Tin and stove store | 1 | 2 | 3 |
| Grocery store | 4 | 5 | 9 |
| Livery stable ..... | ..... | 1 | 1 |
| Furniture store | 1 | 2 | 3 |
| Feed store | 2 | 1 | 3 |
| Junk store | 1 | ..... | 1 |
| Shed | 3 | ..... | 3 |
| Collision railroad cars ..... | ..... | ..... | 1 |
| Stable | 7 | 10 | 17 |

C.—*Kind of buildings where the fires originated*—Continued.

| Buildings. | Frame. | Brick. | Total. |
|------------------------------------|--------|--------|--------|
| Restaurant..... | | 4 | 4 |
| Gas-fitters' supplies..... | | 1 | 1 |
| Hotel..... | | 1 | 1 |
| Crockery store..... | | 1 | 1 |
| Office..... | | 7 | 7 |
| Brass works..... | | 1 | 1 |
| Cigar store..... | | 1 | 1 |
| Cooper's shop..... | 1 | | 1 |
| Shoe store..... | | 2 | 2 |
| Carpet house..... | | 1 | 1 |
| Commission house..... | | 1 | 1 |
| Government building (marble)..... | | | 1 |
| Public hall..... | | 1 | 1 |
| Blacksmith shop..... | 2 | | 2 |
| Variety store..... | | 2 | 2 |
| Warehouse..... | 2 | | 2 |
| Provision store..... | | 3 | 3 |
| Hot-house..... | 2 | | 2 |
| Hardware store..... | | 1 | 1 |
| Picture-frame manufactory..... | | 1 | 1 |
| Hat store..... | | 1 | 1 |
| Clothing store..... | | 2 | 2 |
| Machine shop..... | | 1 | 1 |
| Freight car..... | 1 | | 1 |
| School-house..... | | 2 | 2 |
| Shoemaker's shop..... | 1 | | 1 |
| Barber's shop..... | 1 | | 1 |
| Pullman palace car..... | 1 | | 1 |
| Builder's material..... | | 1 | 1 |
| Metropolitan club-house..... | | 1 | 1 |
| Engine-room..... | 1 | | 1 |
| Dry dock..... | 1 | | 1 |
| Confectioner's store..... | | 1 | 1 |
| Oil house..... | 1 | | 1 |
| Exhibition building..... | | 1 | 1 |
| Carpet cleaning establishment..... | | 1 | 1 |
| Printing office..... | | 1 | 1 |
| Wood and coal yard..... | 1 | | 1 |

V.

REPORT OF THE MAJOR AND SUPERINTENDENT OF METROPOLITAN POLICE.

METROPOLITAN POLICE DEPARTMENT,
Washington, D. C., July 1, 1888.

SIRS: I have the honor to submit a report of the operations of this department during the past fiscal year, and also estimates of the appropriations necessary for its support during the fiscal year ending June 30, 1890:

| | |
|--|--------------|
| The appropriations for the past year aggregated..... | \$344,700.00 |
| The expenditures were..... | 344,472.03 |
| Leaving an unexpended balance of..... | 227.97 |

There were also disbursed, from funds furnished by the Commissioners:

| | |
|--|------------|
| For the relief of the poor..... | \$2,000.00 |
| For transportation of paupers and prisoners..... | 3,731.83 |
| Total..... | 5,731.83 |

ESTIMATES.

The estimates for the fiscal year ending June 30, 1890, are as follows:

| | |
|---|------------|
| One major and superintendent..... | \$2,700.00 |
| One captain..... | 1,800.00 |
| One chief clerk, also property clerk..... | 1,800.00 |
| One clerk..... | 1,500.00 |
| One clerk..... | 1,000.00 |
| Four surgeons, at \$480..... | 1,920.00 |
| Additional compensation for privates detailed for special service in the detection and prevention of crime, or so much thereof as may be necessary..... | 1,440.00 |
| Two lieutenants, to be inspectors, at \$1,500..... | 3,000.00 |
| Nine lieutenants, at \$1,320..... | 11,880.00 |
| Twenty-two sergeants, at \$1,140..... | 25,080.00 |
| One hundred and forty privates, class 2, at \$1,080..... | 151,200.00 |
| One hundred and forty-five privates, class 1, at \$900..... | 130,500.00 |
| Nineteen station-keepers, at \$720..... | 13,680.00 |
| Nine laborers, at \$480..... | 4,320.00 |
| One messenger..... | 700.00 |
| One messenger..... | 500.00 |
| One major and superintendent, mounted..... | 240.00 |
| One captain, mounted..... | 240.00 |
| Twenty-five lieutenants, sergeants, and privates, mounted, at \$240 each..... | 6,000.00 |
| One ambulance driver..... | 400.00 |
| Two assistant ambulance drivers, at \$300..... | 600.00 |
| One van driver..... | 360.00 |
| Seven patrol drivers, at \$360..... | 2,520.00 |
| Rent of police headquarters, and the substation at Anacostia, D. C..... | 1,200.00 |
| Fuel..... | 2,000.00 |

| | |
|--|------------|
| Remodeling station-house, and for building for cells and lodging-rooms in third precinct | \$7,000.00 |
| Stable for horse and patrol wagon of third precinct, for grading yard and making gateway | 2,500.00 |
| Remodeling station-house, and for building for cells and lodging-rooms in the fifth precinct | 7,000.00 |
| Purchase of lot adjoining the fifth precinct station-house | 2,500.00 |
| Repairs to stations | 2,400.00 |
| Miscellaneous and contingent expenses, including stationery, books, telegraphing, photographs, printing, binding, gas, ice, washing, meals for prisoners, furniture and repairs to same, beds and bed-clothing, insignia of office, purchase and care of horses, police equipments and repairs to same, harness, forage, repairs to vehicles (van, ambulances, and patrol wagons), and expenses incurred in the prevention and detection of crime, and other necessary items | 14,000.00 |
| Police signal and telephone system in the fifth, seventh, or eighth precinct, including horse, wagon, harness, etc. | 4,500.00 |
| For stable to accommodate same in such precinct as may be designated. Twelve additional stations for patrol service in the sixth and ninth precincts | 2,500.00 |
| Setting boxes | \$2,400.00 |
| Electrical apparatus for ninth precinct | 200.00 |
| Horse, \$250; wagon, \$325; harness, mattress, etc., \$100 | 250.00 |
| | 675.00 |
| Ambulance, \$300; horse, \$250; harness, \$65 | 3,525.00 |
| | 615.00 |
| Total | 413,100.00 |

INSUFFICIENT COMPENSATION.

These estimates exceed the appropriations for the present year \$6,560. They, however, contemplate no change in salaries, although another year's experience strengthens my belief that increased compensations should be allowed as urged in the last annual report, viz: Of the captain, from \$1,800 to \$2,100; of the chief clerk, from \$1,800 to \$2,100; of the four surgeons, from \$480 to \$600; of the nine lieutenants, from \$1,320 to \$1,500; of the sergeants, from \$1,140 to \$1,200; of the station keepers, from \$720 to \$900; of the ambulance driver, from \$480 to \$600; and of the patrol drivers, from \$360 to \$420. The salaries of these employes, as at present established by law, are not commensurate with the responsibilities and labors they perform, which grow yearly with increasing population and consequent demands.

INADEQUATE FORCE.

No provision is made in the estimates for an increase of the force, and the omission requires brief explanation. In the appropriation bill for the expenses of the District government for the fiscal year ending June 30, 1889, passed during the present session of Congress, and approved by the President, one lieutenant, two sergeants, and thirty privates were added to the police establishment. A bill authorizing a further increase of eight sergeants and sixty privates, which has passed the House of Representatives, is now awaiting the action of the Senate, with certain amendments proposed by the District Committee of that honorable body. It is hoped and believed that this bill, modified as reported to the Senate, will become a law, and thus place at the disposal of this department a sufficient number of policemen to overawe the criminal classes, by making reasonably certain the arrest of offenders. It is respectfully submitted that a population of 218,000, covering an area of nearly 73 square miles, can not adequately be protected by a force which between midnight and sunrise does not average more than one hundred and ten men.

ACCOMMODATIONS REQUIRED.

The amounts needed to remodel the station-houses in the third and fifth precincts are stated in the estimates, and the reasons given in the last annual report of this department for the improvement of these buildings have not been diminished, but strengthened by the intervening months. Erected more than a quarter of a century ago, they have become insufficient in accommodations for officers and the safe-keeping of prisoners. A stable should be provided without delay for the horse and wagon connected with the patrol system now being extended over the third precinct, the only shelter at present available for them being a dilapidated wooden shed.

The recommendation for the improvement of the station-house in the fifth precinct should be contingent upon the purchase of the adjoining vacant lot. A building erected thereon would close two windows of the dormitory, confine ingress and egress to a single door, and leave no space for a stable. The price now demanded for the lot is largely in excess of the sum for which it was originally offered, and unless it is acquired by the Government, the station-house will become useless for police purposes.

THE PATROL EXTENSION.

An appropriation has been yearly granted by Congress for the extension of the police signal and telephone service. It is desirable that its limits should be so enlarged as to embrace either the fifth, seventh, or eighth precinct, which reach beyond the city boundaries and cover the entire county. The usual amount (\$4,500) is asked for this purpose, and, if allowed, will necessitate a further appropriation of \$2,500 for the construction of a stable, as the eighth alone, of these three precincts, possesses stable accommodations, entirely inadequate, however, for a patrol system, when combined with a mounted force.

At its present session, Congress made provision for a station-house in the northeastern portion of the city of Washington. This wise legislation calls for two precincts, where only one has heretofore existed. In the precinct thus divided (the sixth), 15 patrol boxes are in operation, 9 of which will be within the boundaries of the new district, leaving 6 only in what will be continued as the sixth. Twelve additional boxes will be required, in view of the greater number of beats that will be established to make police supervision in these particular precincts thorough and effective.

Five patrol drivers are now authorized by law. If the patrol system should be extended into another precinct and enlarged as above recommended, two more drivers will be necessary, and are provided for in the accompanying estimates.

LIMITED AMBULANCE SERVICE.

Three ambulances are at present in possession of this department, one of them a two-horse vehicle, too unwieldy for service, and consequently not used. A light one-horse ambulance, suitable for unpaved roads and rapid transit, is needed for emergent cases. The department is often called upon to carry to and from the depots persons too sick to be conveyed by ordinary passenger vehicles, and at the same time the two ambulances now in use are daily employed in frequent trips to hospitals widely separated. The estimates therefore call for an appropriation for another ambulance and an additional assistant driver.

THE FORCE.

The records of the past year evidence increased efficiency and improved discipline on the part of officers and men. Much extra labor has been devolved upon them, and they deserve commendation for the zeal and intelligence with which they have discharged duties both onerous and complicated. The strength of the force was 287, distributed as follows:

Disposition of the force June 30, 1888.

| | Superin-
tendent. | Captain. | Inspect-
or. | Lieuten-
ants. | Ser-
geants. | Privates. | Total. | Detailed. |
|------------------------|----------------------|----------|-----------------|-------------------|-----------------|-----------|--------|-----------|
| Headquarters | 1 | 1 | 1 | | | | 3 | |
| First precinct | | | | 1 | 3 | 41 | 45 | 7 |
| Second precinct | | | | 1 | 2 | 30 | 33 | 5 |
| Third precinct | | | | 1 | 1 | 30 | 32 | 4 |
| Fourth precinct | | | | 1 | 2 | 31 | 34 | 7 |
| Fifth precinct | | | | 1 | 4 | 29 | 34 | 4 |
| Sixth precinct | | | | 1 | 2 | 40 | 43 | 6 |
| Seventh precinct | | | | 1 | 4 | 23 | 28 | 2 |
| Eighth precinct | | | | 1 | 2 | 25 | 28 | 2 |
| Detectives | | | 1 | | | 6 | 7 | |
| Total | 1 | 1 | 2 | 8 | 20 | 255 | 287 | 37 |

The time lost by members of the force on account of sickness and other causes was 5,638 days, as against 6,260 days during the year preceding. The number of trials for violation of the rules was 96, 10 less than during the previous twelve months; while in 1,453 instances men were detained at the police court after 11 o'clock a. m. who should either have been on duty or taking needed rest. This evil increases yearly, and measures should be adopted which will relieve the police of this tax upon their strength, and at the same time afford speedy trial to arrested persons.

The following table of the number of cases of arrest in each precinct presents a total of 20,530, of which 9,958 were colored:

| Precinct. | Male. | Female. | Total. |
|------------------|--------|---------|--------|
| First | 4,452 | 687 | 5,139 |
| Second | 1,568 | 357 | 1,925 |
| Third | 1,686 | 224 | 1,910 |
| Fourth | 2,515 | 812 | 3,327 |
| Fifth | 1,351 | 184 | 1,535 |
| Sixth | 2,640 | 429 | 3,069 |
| Seventh | 975 | 177 | 1,152 |
| Eighth | 1,605 | 383 | 1,988 |
| Detectives | 429 | 56 | 485 |
| Total | 17,221 | 3,309 | 20,530 |

THE CRIMINAL CLASSES.

The tables accompanying this report show the various offenses charged, also the age, sex, and disposition of those arrested. Of the whole number, 7,193 were dismissed, personal bonds were taken in 1,899, and 1,396 were *nolle prossed*. Those dismissed were mostly arrested for intoxication (there being no law for their punishment, and their temporary detention by the police being necessary for their protection), disorderly conduct, violation of District ordinances, keeping dogs without license, etc. The cases thus disposed of aggregated 10,488, and,

when taken from the whole number (20,530), left but 10,042 for trial; a much smaller number in proportion to the population than elsewhere in the large cities. In this connection it should be remembered that the capital of the nation has a population peculiarly its own, as a comparison of the following criminal statistics will demonstrate:

| Offenses. | Reported. | Apprehended. | White. | Colored. | Held. |
|-----------------------|-----------|--------------|--------|----------|-------|
| House-breaking: | | | | | |
| Day | 55 | 34 | 6 | 28 | 15 |
| Night | 307 | 108 | 22 | 86 | 87 |
| Grand larceny | 150 | 137 | 70 | 67 | 81 |
| Petit larceny | 1,362 | 999 | 208 | 791 | 661 |
| Larceny: | | | | | |
| From persons | 76 | 49 | 22 | 27 | 26 |
| From Government | 2 | 6 | 2 | 4 | 5 |
| Highway robbery | 12 | 14 | 8 | 4 | 13 |
| Embezzlement | 29 | 28 | 23 | 5 | 14 |
| False pretenses | 24 | 22 | 17 | 5 | 7 |
| Forgery | 21 | 35 | 25 | 10 | 27 |
| Total | 2,041 | 1,432 | 403 | 1,027 | 936 |

It will be observed that of the 2,041 criminal cases reported to the department 1,432 arrests were made, 65 per cent. of which were convicted on the preliminary hearing, and that of the number apprehended 70 per cent. were colored, while the colored population is but one-third of the white. Robbing of houses and sneak-thieving were committed by colored criminals in three instances to one by the white; while forgery, embezzlement, and false pretenses—crimes rapidly on the increase all over the country, and requiring a greater degree of intelligence on the part of the operator—were the work of white people in the proportion of about two to one colored. The most exasperating and meanest work with which the police have to contend is carried on by sneak-thieves, and the petit-larceny table demonstrates that 791 cases out of 999 were committed by colored persons.

Of the higher crimes, that of murder has not been the exception here and never was, and it is with regret that an increased number of cases must be chronicled. During the year 19 cases were charged, 9 white and 10 colored; which were disposed of as follows: Dismissed, 3; *nolle prosequi*, 1; grand jury, 14; not disposed of, 1. Ninety-eight dead infants were found by the police; a fact strongly suggestive of the want of an effective law against seduction and fornication.

DISHONEST SERVANTS.

Servants and other domestic attendants form a considerable proportion of the arrested, viz: cooks, 57; coachmen, 13; porters, 31; servants, 1,276; a total of 1,377, or 7 per cent. of the entire year's cases. These people are so closely associated with household affairs, and have so many opportunities for pilfering when so disposed, as to make it desirable that a record should be kept of those whose dishonesty has been clearly established; and it will be the aim of this department, when furnished with proper facilities, to collect and make available such information as will tend to exclude the unworthy from employment.

CONCEALED WEAPONS.

The number of persons arrested for carrying concealed weapons was 193, 56 white and 137 colored; an increase of about 40 per cent. over

the previous year. It is evident that property of this description should not be returned to the owner, after he has been tried, convicted, and punished, or, if unclaimed, that it should not be sold at public auction, where low prices induce the purchase and possession of weapons by the vicious. It is therefore hoped that legislation will make effective the recommendation in the accompanying report of the chief (also property) clerk, that all such articles which come into his possession through violations of law shall be destroyed, as are implements of gaming seized by the police, in order that they may not again be used for unlawful purposes.

LOTTERY AND POLICY CASES.

Efforts to enforce the lottery and policy laws have almost ceased, it having been claimed, in May last that, under a decision of the Supreme Court of the United States, a person arrested and brought before the police court for violation of either of those enactments is entitled to trial by jury. No provision having been made by Congress for jury trials in the police court, the case was sent to the grand jury, and an indictment found. The plea was then advanced that the act establishing that tribunal conferred upon it "original and exclusive jurisdiction of all offenses against the United States committed in the District not deemed capital or otherwise infamous crimes," and that the case must be tried there before it could be prosecuted in the criminal court. No further action has been taken, and as a consequence over thirty persons arrested for violations of the lottery and policy laws have been released on bonds, while more recently warrants have been refused altogether. Should the decision be in favor of the defendants, further endeavors to enforce these acts will be useless, until such legislation shall be granted by Congress as will give them the intended effect.

THE INSANE.

The commitments to the Government Hospital for the Insane numbered 162; an increase of 28 over the year preceding. In my last report attention was called to the embarrassment occasioned this department by the delays attending jury trials in such cases. The dangerously insane, pending trial, are confined in a station, the cells of which are intended merely "for the temporary detention of persons arrested for offenses," or until they can be brought before the police court, which (excepting Sundays) has daily sessions. It not infrequently happens that an insane person charged with no offense is confined in a cell several days, during which time he is furnished meals at the expense of this department, and requires constant watching, lest he may do himself violence. Humanity demands that more suitable accommodations should be provided for the comfort and safe-keeping of these unfortunate persons prior to and during the necessary proceedings to determine their sanity.

THE ARMY AND NAVY CLAUSE.

Frequent but ineffectual appeals have been made for the repeal of the law requiring that "no person shall be appointed as policeman or watchman who has not served in the Army or Navy of the United States and received an honorable discharge." It has ceased to accomplish the well-known purpose for which it was enacted, and really assumes that the only qualification necessary for a policeman at the national

capital is that he has served a term of enlistment in time of peace. Considerable difficulty has just been experienced in procuring the additional men authorized by the act approved July 18, 1888, and discharges had to be sought from the War Department before the complement could be obtained.

During the year only eighty-two applicants were examined by the board of surgeons, of whom forty-five were accepted and thirty-seven rejected. The large number of rejections, averaging 45 per cent., gives force to the recommendation for a repeal of this law.

PATROL BOAT.

In June last a small steam-boat for police and harbor purposes was purchased by the Commissioners. It was placed in charge of the harbor-master, and an engineer, pilot, and extra man were detailed from the police force for duty on the boat. It has already performed valuable service in patrolling the river front, occupied by the navy-yard, artillery barracks, steam-boat and other wharves, lumber and coal yards, planing mills, and warehouses. It has also been useful in saving over thirty lives, recovering dead bodies, restoring to their owners stolen boats, preventing gambling, enforcing the laws to protect fish and game, and putting an end to indecent exposures on the river by vile men and boys. Being an open boat, with only a canopy top, very little protection in inclement weather is afforded the crew and machinery, and it is suggested that cabin accommodations be provided without delay. Means, it is hoped, will yet be allowed for a boat suitable not only for police purposes, but for keeping open navigation during the winter months and rendering aid in the suppression of fires along the river front.

RELIEF OF THE POOR.

The entire amount of \$2,000, allotted to this department for the relief of the poor, was exhausted by the 1st of February last, in endeavors to alleviate the distress occasioned by the rigors of an early winter. An appeal to the public by the Commissioners was generously responded to by contributions amounting to \$4,477.80, of which \$1,386.30 were expended in February, \$1,120.05 in March, \$1,532.65 in April (three months of unusual severity), \$293.45 in May, and \$145.35 in June. Excepting in seventy-four cases, where money was supplied, these funds were disbursed by this department in payment of fuel and groceries furnished upon the written orders of the precinct lieutenants, after thorough investigation of the condition of each applicant for aid. The vouchers for these expenditures have been examined and approved by the auditor of the District of Columbia, and the appended statement shows the number of orders issued by the lieutenants in extending relief to about 8,000 persons:

| | Groceries. | Fuel. | Total. |
|-----------------------|------------|-------|--------|
| First precinct..... | | | |
| Second precinct..... | 65 | 81 | 146 |
| Third precinct..... | 88 | 78 | 166 |
| Fourth precinct..... | 70 | 98 | 168 |
| Fifth precinct..... | 91 | 52 | 143 |
| Sixth precinct..... | 136 | 134 | 270 |
| Seventh precinct..... | 229 | 194 | 423 |
| Eighth precinct..... | 59 | 101 | 160 |
| Headquarters..... | 47 | 83 | 130 |
| | 26 | 4 | 30 |
| | 811 | 825 | 1,636 |

THE POLICEMEN'S FUND.

The pension-roll, which has been increased to \$25 per month during the past year, is now as follows:

| | Per month. | | Per month. |
|----------------------|------------|-----------------------|------------|
| Gorman children..... | \$50.00 | Kearney, Patrick..... | \$50.00 |
| Milstead, R. A..... | 30.00 | Shelton, Joseph..... | 50.00 |
| Kearney, S. L..... | 40.00 | Coomes, Sarah A..... | 30.00 |
| Nokes, G. W..... | 50.00 | Jones, Sophia..... | 20.00 |
| Powell, William..... | 30.00 | Greer, Lucinda H..... | 25.00 |
| Harper, J. G..... | 30.00 | | |
| Atchison, H. L..... | 25.00 | | 430.00 |

The police fund, at the commencement of the fiscal year beginning July 1, 1887, amounted to \$28,818.34; an increase to the principal over the previous year of \$1,331.36. On the 30th of June last it was \$30,068.01; a gain of \$1,249.67 over the year preceding; a falling off, however, in the accumulation of \$81.69, although the fund had been augmented by \$1,013.75, received from an excursion given by the police for its benefit. Unless, by efforts on the part of the members of this department, like successful results should be obtained in this behalf, the pension-roll, notwithstanding the monthly drawback from thirty-three men recently added to the force, will decrease to less than \$300 the accumulation to the principal, and barely allow further relief, never mind how worthy the case may be, at a monthly rate of \$25. An earnest recommendation is made for an appropriation by Congress of an amount equal to that contributed by the force, each member of which is assessed at the rate of \$1 per month, in order that the disabled—some of whom have served twenty-seven years—may be gradually retired.

THE SANITARY SERVICE.

The report of the sanitary officer exhibits in detail the operations of the ambulance service, and contains the usual statistics as to the sick and destitute sent to the various local hospitals. Transportation was furnished 634 persons, each of whom was liable to become a charge upon the District; an excess of 103 over the year ending June 30, 1887.

HUMANE WORK.

The officer detailed to assist the Humane Society reports 194 cases investigated by him for infractions of the law for the protection of children; an important work, which he has well performed as agent of an institution whose goodness and charity here find a broad and active field.

CENSUS OF THE DISTRICT OF COLUMBIA.

In June last, by direction of the Commissioners, a census of the inhabitants of the District was taken by the police, limited, however, to population and the number of children attending private schools. Every effort was made to secure accuracy, and the men detailed for the work exhibited praiseworthy interest, intelligence, and care. Their returns, as tabulated, furnish the following information as to population on the 15th day of June last, and show the presence as residents at the seat of Government of 93 Chinese, 17 Japanese, and 3 Indians.

| Precincts. | White. | | | Sex. | | Colored. | | | Sex. | | Total. |
|---------------|----------------|-----------------|-------------------|--------|---------|----------------|-----------------|--------------------|--------|---------|---------|
| | Under 6 years. | Under 18 years. | 18 years and over | Male. | Female. | Under 6 years. | Under 18 years. | 18 years and over. | Male. | Female. | |
| First | 774 | 2,501 | 12,363 | 7,968 | 7,786 | 173 | 509 | 2,765 | 1,304 | 2,174 | 19,232 |
| Second | 1,430 | 4,212 | 12,946 | 8,521 | 10,402 | 884 | 2,314 | 6,804 | 4,123 | 6,130 | 29,176 |
| Third | 1,204 | 2,906 | 9,372 | 6,697 | 7,702 | 1,142 | 2,683 | 7,858 | 5,114 | 6,830 | 25,743 |
| Fourth | 1,742 | 3,639 | 8,968 | 7,273 | 7,408 | 1,344 | 3,001 | 7,012 | 5,459 | 6,123 | 26,263 |
| Fifth | 2,433 | 5,301 | 14,310 | 11,660 | 10,911 | 1,218 | 2,630 | 5,660 | 4,593 | 5,183 | 32,347 |
| Sixth | 2,507 | 6,579 | 19,507 | 14,284 | 14,897 | 1,014 | 2,552 | 5,984 | 4,384 | 5,389 | 38,954 |
| Seventh | 1,375 | 3,291 | 7,611 | 6,149 | 6,425 | 480 | 1,353 | 2,716 | 2,097 | 2,562 | 17,233 |
| Eighth | 2,180 | 4,848 | 10,771 | 9,205 | 8,947 | 1,446 | 3,155 | 6,203 | 5,006 | 6,051 | 29,209 |
| | 13,645 | 33,300 | 95,848 | 71,157 | 74,478 | 7,701 | 18,200 | 45,002 | 32,080 | 40,442 | 218,157 |

Total white population 145,635
Total colored population 72,522

218,157

n
rec This population is distributed as follows :

ing Washington 179,448
Georgetown 14,345
County 24,364
218,157

The police census of June, 1885, showed a population of 203,459, composed of 136,271 white and 67,188 colored persons, viz :

Washington 173,606
Georgetown 14,332
County 15,531
203,459

Increase in population 14,698

Births since 30th June, 1887.

| Precincts. | White. | Colored. |
|---|--------|----------|
| First | 116 | 31 |
| Second | 335 | 251 |
| Third | 317 | 258 |
| Fourth | 332 | 225 |
| Fifth | 527 | 268 |
| Sixth | 588 | 223 |
| Seventh | 294 | 110 |
| Eighth | 353 | 253 |
| Births, deceased since June 30, 1887..... | 2,862 | 1,619 |
| | 313 | 458 |
| Total births since June 30, 1887..... | 3,175 | 2,077 |

As the villages in the District have no specified limits, it was found difficult to determine accurately the population with which each should be credited. The following figures, however, are believed to be approximately correct:

Nonsuch, 48; Benning's, 70; Burrville, 113; Lincoln, 95; Anacostia, 1,689; Hillsdale, 1,669; Garfield, 259; Giesboro', 314; Ivy City, 172; Mount Pleasant, 4,090; Brooks Station, 111; Eckington, 40; Takoma (in the District of Columbia), 200; Montello City, 197.

The number, color, and sex of the children attending private schools in June last was as follows :

| Precinct. | White. | | | | | | Colored. | | | | | |
|---------------|--------------------------|-------|---------|------------------------------|-------|---------|--------------------------|-------|---------|------------------------------|-------|---------|
| | Resident, 6 to 18 years. | | | Non-resident, 6 to 18 years. | | | Resident, 6 to 18 years. | | | Non-resident, 6 to 18 years. | | |
| | Total. | Male. | Female. | Total. | Male. | Female. | Total. | Male. | Female. | Total. | Male. | Female. |
| First | 429 | 210 | 219 | 4 | 2 | 2 | 4 | 2 | 2 | ..... | ..... | ..... |
| Second | 396 | 100 | 296 | 5 | 4 | 1 | 7 | 2 | 5 | ..... | ..... | ..... |
| Third | 182 | 86 | 94 | 11 | 4 | 7 | 6 | 2 | 4 | 1 | 1 | ..... |
| Fourth | 149 | 64 | 85 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Fifth | 527 | 181 | 346 | 9 | 5 | 4 | ..... | ..... | ..... | ..... | ..... | ..... |
| Sixth | 626 | 262 | 364 | 5 | 1 | 4 | 13 | 4 | 9 | ..... | ..... | ..... |
| Seventh | 337 | 147 | 190 | 262 | 147 | 115 | 4 | 1 | 3 | ..... | ..... | ..... |
| Eighth | 126 | 69 | 59 | 2 | ..... | 2 | 10 | 2 | 8 | 4 | 4 | ..... |
| | 2,772 | 1,119 | 1,653 | 298 | 163 | 135 | 44 | 13 | 31 | 5 | 5 | ..... |

Total white 3,070
Total colored 49

..... 3,119
The number of pupils in the public schools at the same time was 34,850

Total number of children attending schools 37,969

Respectfully submitted.

WM. G. MOORE,
Major and Superintendent Metropolitan Police.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REPORT OF THE CHIEF AND PROPERTY CLERK.

METROPOLITAN POLICE DEPARTMENT, CLERK'S OFFICE,
Washington, D. C., July 1, 1888.

SIR: You are fully conversant with the improvements made from time to time, during the year just closed, in the clerical operations at headquarters. This branch of the department has had the general office work to perform, which has increased in proportion to that demanded of the force, without, however, additional assistance, except that rendered by two police officers detailed for the purpose.

The operations of the property clerk's office are set forth in detail in the following tabulated statement :

Estimated value of money and property returned to the property clerk, and the disposition of same, for the fiscal year, 1888.

| | |
|-----------------|------------|
| July | \$3,261.50 |
| August | 953.85 |
| September | 1,123.02 |
| October | 1,375.25 |
| November | 2,143.60 |
| December | 2,869.17 |
| January | 1,834.73 |
| February | 1,257.54 |
| March | 795.87 |
| April | 892.72 |
| May | 968.03 |
| June | 1,522.58 |
| Total | 18,997.86 |

496 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

| | |
|---|-------------|
| Delivered to owners, by orders of the court, or upon proof of ownership | \$15,999.38 |
| Delivered to claimants on bond | 1,251.00 |
| Sold | 98.73 |
| | <hr/> |
| | \$17,349.11 |
| Estimated value of balance | 1,648.75 |

During the past year the return of weapons taken from persons carrying them concealed has largely increased, and as no provision is made for the confiscation of this class of goods, I have deemed it to the best interest of the department and the community to withhold the return of fire-arms to the vicious class from whom they were taken, despite their protestations. To illustrate how one revolver may operate to continue the practice of carrying concealed arms, I would state that an identical weapon has passed through the records of my office a third time as taken from the same individual. If this character of property is not returned to the owner, after he has paid the penalty attached to carrying it, the law, as it exists, requires that the same shall be sold at public auction. In this wise an armory of cheap and deadly instruments is placed in the reach of the wanton and ignorant classes every year. The number of persons arrested during the year for carrying concealed weapons has increased about 40 per cent. over the previous year. The year just closed shows 193 cases (127 males, 6 females; 56 whites and 137 colored), 150 of which were held by the courts. The time is manifest when every means should be adopted to prevent this practice, which threatens to become epidemic among a large part of the populace; those apprehended representing but a small proportion of those who are equally as guilty. Therefore, I would recommend that the law regulating the disposition of concealed weapons, of every character and kind, be amended, so as to admit of their confiscation by this department, after coming into my hands, and their final destruction, as in the case of gaming implements.

The receipts from estrays have steadily increased, to the advantage of the policemen's fund.

The want of fire, damp, and burglar-proof vaults for the keeping of the records at headquarters and the preservation of property held as evidence in the courts is more keenly felt every year. The destruction of property by moths and damp will soon lead to a crisis which will absolutely necessitate such provision.

The tabulated statements of arrests and dispositions of the condition of various minor funds, etc., have been prepared with great care, and are respectfully submitted for your information.

Respectfully,

Maj. WILLIAM G. MOORE,
Superintendent of Police.

RICHARD SYLVESTER,
Chief, also Property Clerk, Metropolitan Police.

DISCIPLINE OF THE FORCE.

Total number of trials of members of the force for violation of the rules and regulations, dismissals, and resignations for the fiscal year ending June 30, 1888:

| | |
|--|----|
| Neglect of duty | 9 |
| Violation rules 135 and 36 of the manual | 5 |
| Violation rules 135 and 138 of the manual | 16 |
| Violation rule 135 of the manual | 11 |
| Violation rules 9, 135, and 138 of the manual | 1 |
| Violation rules 7 and 9 of the manual | 1 |
| Violation rules 36, 135, and 138 of the manual | 5 |
| Violation rules 9 and 138 of the manual | 1 |
| Violation rule 36 of the manual | 3 |
| Violation rule 34 of the manual | 1 |
| Violation rule 111 of the manual | 1 |
| Violation rules 1, 3, and 9 of the manual | 1 |
| Violation rule 36 of the manual and intoxication | 1 |
| Gross neglect of duty and absence from duty without leave | 1 |
| Gross neglect of duty | 4 |
| Intoxication and violation of rules 135 and 138 of the manual | 1 |
| Conduct unbecoming an officer | 9 |
| Conduct unbecoming an officer and violation of rule 36 of the manual | 1 |
| Intoxication | 6 |
| Intoxication and conduct unbecoming an officer | 4 |
| Intoxication and neglect of duty | 3 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 497

| | |
|--|----|
| Intoxication and profanity..... | 1 |
| Disobedience of orders and neglect of duty..... | 1 |
| Conduct unbecoming an officer and gross neglect of duty..... | 2 |
| Absence from duty without leave..... | 4 |
| Insubordination and conduct unbecoming an officer..... | 1 |
| Gross neglect of duty and cowardice..... | 1 |
| Profanity and conduct unbecoming an officer..... | 1 |
| Total..... | 96 |

DISPOSITION.

| | |
|--------------------------------------|----|
| Fined..... | 42 |
| Cautioned..... | 1 |
| Dismissed..... | 11 |
| Acquitted and charges dismissed..... | 33 |
| Required to pay debt..... | 1 |
| Fined and reprimanded..... | 4 |
| Reprimanded..... | 2 |
| Reduced to first class..... | 1 |
| Fined and dismounted..... | 1 |
| Total..... | 96 |

TIME LOST FROM VARIOUS CAUSES BY THE FORCE.

| | |
|---------------------------|-------|
| | Days. |
| Absent with leave..... | 2,764 |
| Absent without leave..... | 23 |
| Absent sick..... | 2,782 |
| Absent disabled..... | 26 |
| Absent suspended..... | 43 |
| Total..... | 5,638 |

COMMUNICATIONS.

| | |
|--|-------|
| Communications received from July 1, 1887, to June 30, 1888..... | 5,815 |
| Communications sent from July 1, 1887, to June 30, 1888..... | 460 |
| Permits recommended for charitable entertainments..... | 1,250 |

ORDERS.

| | |
|----------------------------|----|
| General orders issued..... | 57 |
| Special orders issued..... | 32 |
| Circulars issued..... | 16 |

CHANGES IN THE FORCE.

| | |
|-----------------------------------|-----|
| 1887. | |
| June 30. Full complement..... | 277 |
| 1888 | |
| June 30. Resigned..... | 6 |
| Dismissed..... | 11 |
| Died..... | 2 |
| | 19 |
| | 258 |
| Increased by act of Congress..... | 10 |
| Vacancies..... | 19 |
| Total force..... | 287 |
| Appointments..... | 29 |
| H. Ex. 1, pt. 6— | 32 |

[illegible]

Table of arrests—Continued.

OVER TWENTY-ONE YEARS OF AGE—Continued.

| Offenses | Males. | Females. | White. | Colored. | Fined and paid. | Work-house—default. | Jail—default. | Sent to work-house. | Sent to jail. | Sent to grand jury. | Personal bonds. | Bonds. | Appealed. | No plea pros. | Dismissed. | Not disposed of. | To insane asylum. | To military authority. | To naval authority. | To U. S. marshal. | To parents or friends. | Executed—sentence suspended. | Returned to Maryland authority. | Returned to New York authority. | Returned to Pennsylvania authority. | Returned to Texas authority. | Returned to Virginia authority. | Returned to work-house. | Sent out of city. | Total. |
|--|--------|----------|--------|----------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|-----------------|--------|-----------|---------------|------------|------------------|-------------------|------------------------|---------------------|-------------------|------------------------|------------------------------|---------------------------------|---------------------------------|-------------------------------------|------------------------------|---------------------------------|-------------------------|-------------------|--------|
| Violation of civil rights law | 947 | 62 | 664 | 345 | 368 | 58 | | 2 | | | 184 | 17 | | 34 | 236 | 40 | | | | | | 20 | | | | | | | 1,009 | |
| Violation of District of Columbia ordinances | 304 | 84 | 146 | 242 | 1 | | | | | | 2 | | | 74 | 303 | 2 | | | | | | | | | | | | | 388 | |
| Violation of dog law | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Violation of fish law | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Violation of game law | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Violation of internal revenue law | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Violation of liquor law | 149 | 59 | 185 | 23 | 91 | 5 | | | | | 9 | 45 | 1 | 9 | 44 | 5 | | | | | | | | | | | | | 208 | |
| Violation of pension law | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Violation of postal law | 4 | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Violation of police regulations | 152 | 2 | 109 | 45 | 60 | 1 | | | | | 69 | 2 | 8 | 8 | 10 | 1 | | | | | | 3 | | | | | | | 154 | |
| Violation of shipping law | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Violation of water law | 10 | | 9 | 1 | 5 | | | | | | 3 | | | 1 | 1 | 1 | | | | | | | | | | | | | 10 | |
| | 12,852 | 2,365 | 8,959 | 6,279 | 3,430 | 1,177 | 321 | 854 | 243 | 201 | 1,336 | 63 | 126 | 1,021 | 6,036 | 207 | 56 | 5 | 4 | 22 | 8 | 9 | 15 | 2 | 3 | 1 | 11 | 2 | 215,238 | |

Summary—Table of arrests.

| Offenses. | Total. | Nolle
prossed. | Dismissed. | Cases
held. |
|---|--------|-------------------|------------|----------------|
| Abduction..... | 1 | | 1 | |
| Abortion..... | 1 | | | 1 |
| Affray..... | 558 | 56 | 124 | 378 |
| Adultery..... | 10 | 4 | 3 | 3 |
| Accessory to murder..... | 1 | | | 1 |
| Arson..... | 1 | | | 1 |
| Assault..... | 497 | 67 | 109 | 321 |
| Assault and battery..... | 2,002 | 292 | 456 | 1,254 |
| Assault, intent to kill..... | 121 | 25 | 10 | 77 |
| Assaulting officer..... | 32 | 4 | 3 | 25 |
| Attempt at larceny..... | 3 | | | 3 |
| Attempt at rape..... | 9 | 1 | | 8 |
| Blackmailing..... | 1 | | 1 | |
| Bigamy..... | 5 | | 2 | 3 |
| Backing policy..... | 8 | | | 8 |
| Buying stolen goods..... | 15 | 1 | 5 | 9 |
| Cruelty to animals..... | 351 | 5 | 33 | 313 |
| Cruelty to children..... | 5 | | 1 | 4 |
| Criminal libel..... | 4 | | 2 | 2 |
| Concealed weapons..... | 193 | 20 | 19 | 154 |
| Contempt of court..... | 153 | 6 | 76 | 71 |
| Conspiracy..... | 13 | | 4 | 9 |
| Creating nuisance..... | 31 | 7 | 7 | 17 |
| Depredation on private property..... | 1 | | | 1 |
| Disorderly conduct..... | 2,206 | 115 | 186 | 1,905 |
| Desertion..... | 12 | | | 12 |
| Destroying private property..... | 120 | 22 | 2 | 76 |
| Destroying public property..... | 10 | | | 10 |
| Enticing prostitution..... | 14 | 3 | 1 | 10 |
| Enticing children to houses of ill-fame..... | 3 | 2 | | 1 |
| Embezzlement..... | 28 | 9 | 5 | 14 |
| Exhibiting obscene pictures..... | 4 | 1 | 1 | 2 |
| Fast driving..... | 67 | 3 | 8 | 56 |
| Forgery..... | 35 | 7 | 1 | 27 |
| Fornication..... | 5 | 1 | | 4 |
| Fraud..... | 1 | | | 1 |
| Fugitives, justice..... | 64 | 1 | 3 | 60 |
| Fugitives, parents..... | 51 | 1 | 7 | 43 |
| Fugitives, Reform School..... | 4 | | | 4 |
| Fugitives, Industrial School..... | 3 | | | 3 |
| Fugitives, Orphan Asylum..... | 2 | | | 2 |
| Fugitives, Insane Asylum..... | 5 | | | 5 |
| Gift enterprise..... | 1 | | | 1 |
| Grand larceny..... | 137 | 33 | 23 | 81 |
| Grave robbery..... | 10 | | | 10 |
| Habitual drunkard..... | 43 | 2 | | 41 |
| Highway robbery..... | 14 | | 1 | 13 |
| Housebreaking, day..... | 34 | 16 | 3 | 15 |
| Housebreaking, night..... | 108 | 13 | 8 | 87 |
| Intoxication..... | 3,865 | | 3,865 | |
| Intoxication and disorderly..... | 980 | 9 | 16 | 955 |
| Interfering with officer..... | 5 | 1 | 1 | 3 |
| Interfering with District of Columbia official..... | 1 | | | 1 |
| Incorrigibility..... | 35 | 8 | 12 | 15 |
| Indecent exposure..... | 205 | | 6 | 199 |
| Indecent assault..... | 21 | 2 | 6 | 13 |
| Insanity..... | 93 | | 34 | 59 |
| Keeping disorderly house..... | 39 | 5 | 7 | 27 |
| Keeping bawdy house..... | 32 | 2 | 2 | 28 |
| Keeping policy shop..... | 9 | | 1 | 8 |
| Keeping gambling house or table..... | 13 | 3 | 1 | 9 |
| Kidnapping..... | 2 | | 2 | |
| Loud and boisterous..... | 103 | 7 | 9 | 87 |
| Larceny from person..... | 49 | 14 | 9 | 26 |
| Larceny from the United States..... | 6 | | 1 | 5 |
| Malicious mischief..... | 8 | | 1 | 7 |
| Murder..... | 19 | 1 | 3 | 15 |
| Mayhem..... | 4 | 1 | | 3 |
| Obtaining money or goods by false pretenses..... | 22 | 9 | 6 | 7 |
| Obstructing sidewalk..... | 11 | | | 11 |
| Perjury..... | 8 | 1 | 3 | 4 |
| Passing counterfeits..... | 4 | 1 | 2 | 1 |
| Petit larceny..... | 999 | 169 | 169 | 661 |
| Profanity..... | 1,330 | 42 | 84 | 1,204 |
| Rape..... | 8 | | 2 | 6 |
| Rioting..... | 6 | | 2 | 4 |
| Resisting officer..... | 1 | | 1 | |
| Receiving stolen goods..... | 20 | 4 | 4 | 12 |
| Refusing to pay hack-hire..... | 86 | | 83 | 3 |
| Refusing to assist officer..... | 5 | | 1 | 4 |

506 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Tables of arrests—Continued.

| Offenses. | Total. | Nolle
prossed. | Dismissed. | Cases
held. |
|--|--------|-------------------|------------|----------------|
| Suspicion..... | 809 | 39 | 624 | 146 |
| Sodomy..... | 2 | | | 2 |
| Selling lottery tickets..... | 11 | 2 | 1 | 8 |
| Threats..... | 450 | 106 | 69 | 275 |
| Trespass..... | 216 | 22 | 19 | 175 |
| United States witness..... | 313 | 1 | 310 | 2 |
| Vagrancy..... | 1,400 | 33 | 45 | 1,322 |
| Writing policy..... | 77 | 5 | 1 | 71 |
| Violation building regulations..... | 15 | 3 | 3 | 9 |
| Violation civil rights law..... | 2 | 1 | 1 | |
| Violation District of Columbia ordinances..... | 1,422 | 94 | 286 | 1,042 |
| Violation dog law..... | 394 | 75 | 307 | 12 |
| Violation fish law..... | 2 | | 2 | |
| Violation game law..... | 1 | | | 1 |
| Violation internal-revenue law..... | 3 | | 2 | 1 |
| Violation liquor law..... | 209 | 10 | 44 | 155 |
| Violation pension law..... | 1 | | | 1 |
| Violation postage law..... | 5 | | | 5 |
| Violation police regulations..... | 201 | 9 | 11 | 181 |
| Violation shipping law..... | 1 | 1 | | |
| Violation water law..... | 10 | | 1 | 9 |
| Total..... | 20,530 | 1,397 | 7,193 | 11,940 |

Social condition of those arrested.

| | |
|------------------------------|--------|
| Total number of arrests..... | 20,530 |
| White..... | 10,572 |
| Colored..... | 9,958 |
| Male..... | 20,530 |
| Female..... | 17,221 |
| Read and write..... | 3,309 |
| Can not read and write..... | 20,530 |
| Males, married..... | 15,795 |
| Males, single..... | 4,735 |
| Females, married..... | 20,530 |
| Females, unmarried..... | 6,021 |
| | 11,200 |
| | 1,029 |
| | 2,280 |
| | 20,530 |

Callings as given by those arrested.

| | | | |
|--------------------|-----|----------------------|-------|
| Actors..... | 18 | Bottler..... | 1 |
| Agents..... | 124 | Book-keeper..... | 1 |
| Apprentices..... | 62 | Broom-maker..... | 1 |
| Artists..... | 5 | Butler..... | 1 |
| Auctioneers..... | 3 | Cabinet-makers..... | 5 |
| Architects..... | 5 | Carpenters..... | 456 |
| Bakers..... | 93 | Cattle broker..... | 44 |
| Bankers..... | 2 | Caterers..... | 16 |
| Barbers..... | 115 | Cigar-makers..... | 31 |
| Barkeepers..... | 219 | Clerks..... | 1,069 |
| Bartenders..... | 44 | Coachmen..... | 13 |
| Basket-makers..... | 4 | Coach painter..... | 1 |
| Blacksmiths..... | 122 | Confectioners..... | 7 |
| Boatmen..... | 7 | Contractors..... | 176 |
| Boot-blacks..... | 82 | Conductors..... | 12 |
| Book-binders..... | 12 | Cooks..... | 57 |
| Boiler-makers..... | 14 | Coopers..... | 9 |
| Brick-layers..... | 363 | Car drivers..... | 6 |
| Brick-makers..... | 8 | Chair caners..... | 2 |
| Brewers..... | 11 | Circus manager..... | 1 |
| Brokers..... | 9 | Constables..... | 3 |
| Builders..... | 9 | Collectors..... | 2 |
| Butchers..... | 120 | Carriage-makers..... | 2 |
| Brakemen..... | 2 | Coppersmith..... | 1 |

Callings as given by those arrested—Continued.

| | | | |
|----------------------|-------|---------------------------|--------|
| Dairymen | 22 | Plasterers | 213 |
| Dentists | 3 | Plate-printers | 2 |
| Dressmakers | 10 | Peddlers | 44 |
| Drivers | 1,014 | Pensioners | 3 |
| Druggists | 9 | Physicians | 42 |
| Drummers | 3 | Plumbers | 148 |
| Draughtsmen | 2 | Policy writers | 38 |
| Engineers | 83 | Policemen | 36 |
| Expressmen | 2 | Porters | 31 |
| Electricians | 2 | Printers | 304 |
| Editors | 3 | Prostitutes | 765 |
| Engraver | 1 | Photographers | 6 |
| Farmers | 203 | Pilots | 5 |
| Firemen | 11 | Pattern-maker | 1 |
| Florists | 14 | Pump-maker | 1 |
| Fishermen | 4 | Pawnbrokers | 3 |
| Foremen | 2 | Restaurant keepers | 17 |
| Gardeners | 59 | Riggers | 6 |
| Grocers | 59 | Reporters | 17 |
| Gambler | 1 | Salesmen | 3 |
| Glass-blower | 1 | Sailors | 110 |
| Glaziers | 5 | Saloon keepers | 33 |
| Gas-fitter | 1 | Stable keeper | 1 |
| Guides | 2 | School-boys | 498 |
| Gunsmith | 1 | School-girls | 33 |
| Hackmen | 6 | Seamstresses | 4 |
| Harness-makers | 17 | Servants | 1,276 |
| Hatters | 10 | Shipwrights | 1 |
| Hod-carriers | 21 | Shoemakers | 123 |
| Hotel-keepers | 26 | Shoremen | 1 |
| Hucksters | 263 | Sheriffs | 1 |
| Hostlers | 35 | Slaters | 1 |
| Housekeepers | 900 | Soldiers | 258 |
| Horse dealer | 1 | Stone-masons | 4 |
| Horseshoer | 1 | Stone-cutters | 141 |
| Herder | 1 | Store-keepers | 67 |
| Iron-workers | 2 | Students | 5 |
| Jewelers | 12 | Superintendents | 10 |
| Junk dealers | 6 | Saddlers | 1 |
| Janitors | 7 | Sail-makers | 3 |
| Jockey | 1 | Silver platers | 1 |
| Journalists | 4 | Stenographers | 2 |
| Laborers | 6,967 | Stable-bosses | 1 |
| Laundrymen | 10 | Sextons | 1 |
| Lawyers | 93 | Tailors | 70 |
| Liverymen | 18 | Teachers | 12 |
| Locksmiths | 8 | Telegraphers | 5 |
| Laundresses | 8 | Thieves | 142 |
| Lithographers | 5 | Tinners | 113 |
| Lamp-lighter | 1 | Teamsters | 1 |
| Machinists | 80 | Type-makers | 1 |
| Marines | 11 | Undertakers | 7 |
| Miners | 3 | Unknown | 507 |
| Merchants | 206 | Upholsterers | 30 |
| Messengers | 34 | Veterinary surgeons | 2 |
| Milkman | 1 | Waiters | 249 |
| Ministers | 7 | Washerwoman | 8 |
| Molders | 31 | Watermen | 24 |
| Musicians | 42 | Watch-makers | 5 |
| Newsboys | 85 | Wheelwrights | 6 |
| None | 838 | Whitewashers | 3 |
| Nurses | 5 | Weavers | 1 |
| Organ-grinder | 1 | Well diggers | 1 |
| Painters | 346 | Watchmen | 43 |
| Paper-hangers | 21 | | |
| Pavers | 18 | | |
| | | Total | 20,530 |

508 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Nativity of those arrested.

| | | | |
|-----------------|-------|---------------------|--------|
| Algiers | 2 | Italy | 119 |
| Australia | 1 | Lapland | 4 |
| Arabia | 3 | Norway | 5 |
| Austria | 8 | Persia | 2 |
| Belgium | 1 | Poland | 3 |
| Bulgaria | 1 | Prussia | 3 |
| Canada | 10 | Russia | 21 |
| China | 7 | Scotland | 41 |
| Denmark | 7 | Spain | 4 |
| Egypt | 1 | Sweden | 15 |
| England | 86 | Switzerland | 19 |
| France | 32 | Turkey | 4 |
| Germany | 453 | United States | 18,631 |
| Greece | 4 | Venezuela | 1 |
| Holland | 5 | Wales | 2 |
| Hungary | 7 | | |
| Indian | 1 | Total | 20,520 |
| Ireland | 1,024 | | |

ESTIMATED VALUE OF MONEY AND PROPERTY THAT CAME INTO THE POSSESSION OF THE SEVERAL PRECINCTS DURING THE YEAR.

| | |
|--|--------------|
| Amount received | \$207,297.80 |
| Amount returned to owners | 75,368.86 |
| Amount returned to property clerk | 18,335.59 |
| Amount returned to pound-master | 507.00 |
| Amount taken from prisoners and returned—order lieutenant | 76,166.40 |
| Amount taken from prisoners and returned—order police judge | 324.62 |
| Amount collateral returned to marshal at police court | 13,259.93 |
| Amount collateral returned to collector at police court | 23,280.40 |
| Amount collateral returned to assessor, District of Columbia | 55.00 |
| | 207,297.80 |

ESTIMATED LOSS—RECOVERED.

| | |
|---|-------------|
| Estimated amount reported stolen | \$44,733.00 |
| Estimated amount reported lost or mislaid | 4,855.50 |
| Estimated amount recovered | 15,587.26 |

MISCELLANEOUS REPORTS.

| | | | |
|--|-------|---------------------------------------|--------|
| Accidents | 321 | Fire-plugs damaged | 40 |
| Attempts at suicide | 19 | Filthy gutters, alleys | 112 |
| Animals taken estray | 398 | Fountains damaged | 22 |
| Animals taken to property clerk | 42 | Found sick on street | 113 |
| Animals taken to poundmaster | 56 | Hydrants damaged | 403 |
| Abandoned infants found | 23 | Inquests attended | 37 |
| Dead infants found | 98 | Lamps damaged | 244 |
| Dead bodies found | 14 | Lamps not lighted | 980 |
| Drowned bodies found | 13 | Lodgers accommodated | 5,727 |
| Lost children | 6 | Pumps damaged | 287 |
| Dead animals | 3,498 | Permits examined, building | 706 |
| Dangerous or broken pavements | 920 | Permits examined, miscellaneous | 1,675 |
| Dangerous holes, roadway | 372 | Sewers damaged | 166 |
| Dangerous buildings | 20 | Sewers filthy | 83 |
| Dangerous bridges | 14 | Suicides | 6 |
| Doors and windows found open | 278 | Telephone messages | 36,094 |
| Damaged trees and boxes | 707 | Water-mains damaged | 165 |
| Deaths—coroner notified—no inquest | 129 | Water-pipes damaged | 106 |
| Fires, times attended | 208 | Telegraph poles damaged | 4 |

SUMMARY.

| | |
|--|------------|
| Number cases fined and paid | 4,722 |
| Number cases fined: | |
| Sent to work-house in default of payment | 1,867 |
| Sent to jail in default of payment | 569 |
| Sent to work-house | 1,198 |
| Sent to jail | 467 |
| Sent to grand jury | 314 |
| Personal bonds taken | 1,899 |
| Bonds | 71 |
| Appealed | 134 |
| Nolle prossed | 1,397 |
| Dismissed | 7,193 |
| Not disposed of | 274 |
| Sent Insane Asylum | 56 |
| Sent military authorities | 5 |
| Sent naval authorities | 8 |
| Sent United States marshal | 30 |
| Sent parents or friends | 50 |
| Execution of sentence suspended | 170 |
| Sent to Reform School | 49 |
| Returned to work-house | 5 |
| Sent to Industrial School | 2 |
| Sent to orphan asylum | 2 |
| Sent to House of Good Shepherd | 1 |
| Sent to House of Mercy | 2 |
| Sent out of the city | 2 |
| Surrendered to New York authorities | 2 |
| Surrendered to Pennsylvania authorities | 3 |
| Surrendered to Maryland authorities | 26 |
| Surrendered to Virginia authorities | 11 |
| Surrendered to Texas authorities | 1 |
|
Total |
20,530 |

Amount United States cases fines imposed\$18,796.75

Amount United States cases—

| | |
|---------------------------|-----------------|
| Fines paid | \$10,184.75 |
| Fines appealed | 1,545.00 |
| To jail, default | 4,725.00 |
| Execution suspended | 296.00 |
| Personal bonds | 2,046.00 |
| | <hr/> 18,796.75 |

Amount District of Columbia cases fines imposed44,964.70

Amount District of Columbia cases—

| | |
|------------------------------|-----------------|
| Fines paid | \$24,298.70 |
| Fines appealed | 3,566.00 |
| To work-house, default | 12,790.00 |
| Execution suspended | 1,117.00 |
| Personal bonds | 3,193.00 |
| | <hr/> 44,964.70 |

VISITS OF GENERAL OFFICERS.

| | | | |
|------------------------------|-----|-------------------------------|-----|
| Honorable Commissioners..... | 3 | Lieutenant and inspector..... | 951 |
| Superintendent..... | 44 | Police surgeons..... | 218 |
| Captain..... | 950 | Visiting officials..... | 7 |

REPORT OF THE POLICE PATROL AND SIGNAL SERVICE.

Number of—

| | |
|---|---------|
| Drivers | 4 |
| Wagons | 4 |
| Horses | 6 |
| Reports from boxes by officers | 208,089 |
| Messages sent and received | 1,463 |
| Calls for wagon by officers | 2,434 |
| Calls for wagon by citizens | 74 |
| Calls for wagon by messenger or telephone | 877 |

510 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Number of—Continued.

| | |
|---------------------------------------|-------|
| Persons taken to headquarters..... | 50 |
| Persons taken to police court..... | 333 |
| Persons taken to jail..... | 2 |
| Persons taken to Insane Asylum..... | 2 |
| Persons taken to hospitals..... | 221 |
| Persons taken home..... | 52 |
| Persons taken to depots..... | 18 |
| Persons taken to gallery..... | 27 |
| Persons taken to several asylums..... | 43 |
| Persons taken to several homes..... | 3 |
| Dead bodies removed..... | 74 |
| Children restored to homes..... | 26 |
| Accidents attended..... | 71 |
| Injured removed to homes..... | 59 |
| Sick removed to homes..... | 110 |
| Times reserves to fires..... | 74 |
| Miscellaneous runs..... | 895 |
| Total number of runs made..... | 5,215 |

LOST REVOLVERS REPORTED.

| | |
|--|--------|
| June 30, 1887, balance due..... | \$5.60 |
| balance on hand..... | 25.72 |
| June 30, 1888, Officer J. V. Riley, lost revolver..... | 15.00 |
| Officer Walters, lost revolver..... | 15.00 |
| Total..... | 60.72 |
| June 30, 1888, Officer Riley, loss remitted..... | 15.00 |
| Officer Matthews, loss refunded..... | 15.00 |
| expense of revolver repairs..... | 19.50 |
| balance on hand..... | 11.22 |
| Total..... | 60.72 |

AMOUNT OF REWARD, FINES, ETC., RECEIVED DURING THE YEAR AND THE DISPOSITION OF THE SAME.

| | |
|---|----------|
| June 30, 1887, balance due..... | \$245.00 |
| June 30, 1888, amount of fines imposed..... | 790.00 |
| amount of time lost..... | 126.22 |
| amount of rewards received..... | 371.00 |
| amount of excursion receipts..... | 1,013.75 |
| amount of society donation..... | 20.00 |
| amount of property sales..... | 307.84 |
| | 2,873.81 |
| amount part rewards to officers..... | \$220.00 |
| amount of fines remitted..... | 70.00 |
| | 290.00 |
| | 2,583.81 |

DEPOSITS TO POLICEMEN'S FUND.

| | |
|------------------------------|----------|
| August 5, 1887, cash..... | \$80.00 |
| September 9, 1887, cash..... | 95.47 |
| October 10, 1887, cash..... | 60.87 |
| October 14, 1887, cash..... | 1,013.75 |
| November 4, 1887, cash..... | 68.00 |
| December 6, 1887, cash..... | 365.71 |
| December 31, 1887, cash..... | 138.37 |
| February 13, 1888, cash..... | 78.00 |
| March 9, 1888, cash..... | 102.31 |
| April 4, 1888, cash..... | 136.25 |
| May 12, 1888, cash..... | 56.25 |
| June 5, 1888, cash..... | 121.25 |
| July 7, 1888, cash..... | 77.19 |
| | 2,393.42 |
| Balance due..... | 190.39 |

POLICE RELIEF ASSOCIATION.

The work of this association is without the jurisdiction of the police department, although the membership of the organization is made up of those who are now or have been connected with the force, and who upon the death of one of their number are assessed the sum of \$1, which is collected and paid without expense to the beneficiary. The following is a statement of the losses sustained by the association during the past fiscal year:

| | |
|--|----------|
| November 25, 1887, amount paid the heirs of J. H. Hughes | \$344.00 |
| November 29, 1887, amount paid the heirs of W. C. Alder | 353.00 |
| November 29, 1887, amount paid the heirs of W. S. Reese | 353.00 |
| March 1, 1888, amount paid the heirs of John Meagre | 356.00 |
| April 1, 1888, amount paid the heirs of John Drill | 380.00 |
| Total | 1,786.00 |

COMMITMENTS TO PENITENTIARY FROM JULY 1, 1887, TO JUNE 30, 1888.

1. Lewis Diggs, black, petit larceny, second offense, one year, July 2, 1887.
2. George Holmes, black, manslaughter, three years, July 9, 1887.
3. Frank Queenan, white, embezzlement, two years, July 16, 1887.
4. Charles Johnson, white, assault with intent to kill, two years, July 16, 1887.
5. William Lancaster, black, manslaughter, two years, July 16, 1887.
6. George Mason, white, house-breaking, three years, July 16, 1887.
7. Oscar J. Harvey, white, forgery, four counts, twelve years, July 20, 1887.
8. Clifton Berry, black, larceny from person, one year, July 22, 1887.
9. W. H. Jackson, black, larceny, one year, October 8, 1887.
10. William E. Bender, black, larceny, one year, October 8, 1887.
11. William Leoanard, alias William Johnson, black, larceny, one year, October 8, 1887.
12. Richard Childress, white, larceny, one year, October 8, 1887.
13. Joseph Oates, white, house-breaking, one year, October 8, 1887.
14. Samuel Walker, black, assault with intent to kill, two years, October 8, 1887.
15. Eugene Steiner, alias Eugene De Mallersberg, black, embezzlement, three years, October 8, 1887.
16. Edwin Raymond, alias Edwin Osborn, white, larceny, one year, October 11, 1887.
17. Charles Edwards, alias Frederick Hansen, black, larceny, one year, October 11, 1887.
18. Frank M. Brown, white, larceny, two years, October 12, 1887.
19. Paul Francis Doyhenard, white, petit larceny, second offense, eighteen months, October 14, 1887.
20. George Camphor, alias George Taylor, black, house-breaking in night, two years, October 15, 1887.
21. Hensen Perry, black, house-breaking in night, two years, October 15, 1887.
22. John Lee, black, manslaughter, six years, October 22, 1887.
23. Ephriam Duckett, black, house-breaking in day, five years, November 5, 1887.
24. John Waddy, black, larceny from the person, two years, November 5, 1887.
25. Edward T. Davis, white, larceny, one year, November 19, 1887.
26. Beverly Jones, black, manslaughter, six years, November 19, 1887.
27. George Armstead, black, assault, one year, November 19, 1887.
28. James Turner, black, larceny, five years, December 10, 1887.
29. Isaac Robinson, black, petit larceny, second offense, two years, December 13, 1887.
30. John Stewart, black, house-breaking, one year, December 17, 1887.
31. Joseph Taylor, black, assault with intent to kill, two years, December 17, 1887.
32. Daniel Magruder, black, robbery, three years, December 24, 1887.
33. Robert Gray, black, larceny, three years, December 31, 1887.
34. Johnson Bolden, black, assault with intent to kill, five years, December 31, 1887.
35. Albert Foster, black, false pretenses, five years, December 31, 1887.
36. William Harvey, alias William Harvey, jr., white, bigamy, two years, January 14, 1888.
37. Julius Lee, alias William Johnson, black, house-breaking, ten years, January 14, 1888.
38. John Caton, white, horse-stealing, five years, January 14, 1888.
39. Robert Quiet, black, house-breaking, two years, January 14, 1888.
40. James H. Myers, black, rape, fifteen years, January 20, 1888.
41. Edward Washington, black, embezzlement, two years, January 20, 1888.
42. Henry Smith, alias Brown, etc., white, horse stealing, two years, January 20, 1888.
43. John Stewart, black, house-breaking, one year, January 20, 1888.

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44. Thomas Coxson, black, larceny, one year, January 21, 1888.
45. Frederick Ames, white, larceny, eighteen months, January 21, 1888.
46. William Hall, black, larceny from the person, four years, January 21, 1888.
47. Charles Lomax, alias Charles Williams, black, larceny, one year, February 11, 1888.
48. Franklin Webster, alias Frank Webster, black, house-breaking, eighteen months, February 18, 1888.
49. John Green, black, house-breaking, two years, February 18, 1888.
50. William Warner, alias Theo. Thomas, black, larceny from the person, four years, February 18, 1888.
51. Henry Price, black, forgery, three years, February 18, 1888.
52. Arthur Burgess, white, petit larceny, three years, March 1, 1888.
53. Robert Johnson, black, house-breaking, six years, March 2, 1888.
54. John Mack, black, house-breaking, nine years, March 2, 1888.
55. William Murphy, black, house-breaking at night, two years, March 2, 1888.
56. Robert A. Robinson, white, forgery, one year, March 2, 1888.
57. Oscar Jackson, black, house-breaking, one year, March 10, 1888.
58. James Hill, alias James Gallagher, black, house-breaking, three years, March 10, 1888.
59. C. P. Benedict, white, embezzlement, three years, March 13, 1888.
60. Charles Branison, black, petit larceny, second offense, three years, March 17, 1888.
61. Charles Browner, white, assault with intent to kill, two years, March 17, 1888.
62. Daniel Hurd, white, larceny, one year, March 24, 1888.
63. Daniel Long, white, larceny, one year, March 24, 1888.
64. John H. Cele, black, petit larceny, second offense, two years, March 24, 1888.
65. Anderson Page, black, petit larceny, second offense, three years, March 24, 1888.
66. Oscar Jackson, black, house-breaking, seven years, April 11, 1888.
67. John Matthews, black, assault with intent to kill, three years, March 31, 1888.
68. William Jefferson, black, larceny, three years, February 15, 1888.
69. William Chew, black, assault, one year, March 31, 1888.
70. Frank Whitney, alias Frank Whittington, black, larceny from the person, three years, March 31, 1888.
71. William Robinson, black, larceny, three years, March 31, 1888.
72. Charles Chase, black, house-breaking, eight years, March 31, 1888.
73. James Carroll, alias James Carter, black, house-breaking, seven years, April 21, 1888.
74. Alex. Sanford, alias Stanford, black, petit larceny, second offense, one year, April 7, 1888.
75. Michael Doyle, white, house-breaking, one year, April 7, 1888.
76. Boston Green, black, receiving stolen property, one year, April 7, 1888.
77. James Turebell, alias James Twiebell, white, grand larceny, three years, April 14, 1888.
78. Samuel Coleman, black, petit larceny, second offense, one year, April 14, 1888.
79. John Waters, black, grand larceny, one year, April 14, 1888.
80. George Davis, white, house-breaking, one year, April 21, 1888.
81. Webster Banks, black, false pretenses, one year, April 21, 1888.
82. Robert Dent, black, house-breaking, ten years, April 21, 1888.
83. Thomas Grigsby, black, house-breaking, three years, April 21, 1888.
84. William Green, black, house-breaking, six years, April 28, 1888.
85. Grant Johnson, black, house-breaking, four years, May 12, 1888.
86. Robert Berkley, black, house-breaking, two years, May 19, 1888.
87. Theo. N. Handy, black, larceny from the person, four years, May 19, 1888.
88. John Marlow, black, assault with intent to rape, one year, May 19, 1888.
89. Benjamin Pollard, black, house-breaking, three years, May 19, 1888.
90. Charles Zipprecht, white, house-breaking, seven years, May 26, 1888.
91. John Welch, alias John Nicholson, white, house-breaking, two years, May 26, 1888.
92. Henry Osborn, white, house-breaking, three years, May 26, 1888.
93. James W. Welsh, white, assaulting officer, one year, May 26, 1888.
94. Frederick W. M. Sherman, white, grand larceny, one year, June 2, 1888.
95. Adam Winecoff, black, larceny from the person, one year, June 9, 1888.
96. James Lawson, black, house-breaking, one year, June 9, 1888.
97. Edward Hurley, alias Sanford, etc., black, house-breaking, ten years, June 9, 1888.
98. George Brumbrey, black, violating section 5438, two years, June 16, 1888.
99. John F. Sullivan, white, manslaughter, one year, June 23, 1888.
100. Edward J. Hudson, white, assault with intent to kill, two years, June 23, 1888.
101. William Vosburgh, alias John Lee, white, larceny from the person, three years, June 30, 1888.
102. Michael Biggame, white, second offense, petit larceny, one year, June 30, 1888.

103. Sandy Lewis, black, grand larceny, one year, June 30, 1888.
104. Albert Thornton, black, grand larceny, one year, June 30, 1888.
105. Andrew J. Henning, white, house-breaking, one year, June 30, 1888.
106. Thomas Wales, black, house-breaking, one year, June 30, 1888.

COMMITMENTS TO JAIL.

1. William Blackford, alias Cheek, alias Chick, black, larceny from the person, Reform School during minority.
2. Ella Green, black, larceny from the person, six months in jail, July 9, 1887.
3. Charles Dean, black, petit larceny, six months in jail, July 9, 1887.
4. Mary A. White, alias Tenie White, black, house-breaking, six months in jail, July 9, 1887.
5. Richard Hudson, white, larceny from the person, six months in jail, July 9, 1887.
6. George Columbus, white, assault, ninety days in jail, July 23, 1887.
7. William Dockett, black, larceny, Reform School during minority.
8. Hugh Morgan, black, embezzlement, six months in jail, October 8, 1887.
9. Nace Steward, black, assault, six months in jail, October 8, 1887.
10. Charles Hackerson, black, house-breaking, six months, October 13, 1887.
11. James DeVaughn, white, larceny from the person, four months, October 15, 1887.
12. B. Frank Wright, white, embezzlement, six months, October 22, 1887.
13. Daniel Taper, black, petit larceny, ninety days, October 22, 1887.
14. Anthony Wells, alias Tony Wells, black, simple assault, ninety days, November 5, 1887.
15. Edward Crown, alias John Edward Brown, white, petit larceny, thirty days, November 19, 1887.
16. Arthur Burgess, white, petit larceny, thirty days, December 10, 1887.
17. Walter Snowden, black, simple assault, six months, December 24, 1887.
18. James W. Welch, white, assault and battery, ninety days, December 31, 1887.
19. Albert Eichelberger, white, assault, jail from December 29, 1887, to February 10, 1888.
20. Dorsey Fultz, black, assault and battery, Reform School during minority.
21. William Smith, black, assault, six months in jail, December 31, 1887.
22. George Roberts, black, petit larceny, six months, January 14, 1888.
23. Nannie Graham, black, house-breaking, six months, January 14, 1888.
24. William Jackson, black, house-breaking and larceny, Reform School during minority.
25. George Weeks, black, assault, three months, January 21, 1888.
26. Rebecca Marshall, black, house-breaking, six days, February 4, 1888.
27. Ernest Padgett, white, embezzlement, thirty days, February 4, 1888.
28. William Garrett, black, house-breaking, Reform School during minority.
29. Edmund Johnson, black, larceny, sixty days, February 18, 1888.
30. Frank Wicks, black, assault, six months, March 3, 1888.
31. William Zyprecht, white, petit larceny, three months, March 3, 1888.
32. Charles Baker, white, petit larceny, three months, March 3, 1888.
33. James H. Thornton, black, house-breaking in day, Reform School during minority.
34. George Blackley, black, house-breaking, four months, March 3, 1888.
35. Thomas Stack, white, assault, nine months, March 10, 1888.
36. William Myers, white, assault, one year, March 10, 1888.
37. Michael Meaney, white, larceny from the person, six months, March 10, 1888.
38. William Miles alias William Moore, white, embezzlement, six months, March 17, 1888.
39. James Lawson, black, house-breaking in night, six months, March 17, 1888.
40. James Johnson, black, assault, ten days, March 24, 1888.
41. Judd West, black, larceny from the person, Reform School during minority.
42. Edward Buckley, alias Timothy Buckley, white, petit larceny, four months, March 24, 1888.
43. Michael Green, black, petit larceny, forty days, March 31, 1888.
44. Robert Rhone, black, simple assault, ninety days, April 7, 1888.
45. Mary J. Dickinson, black, petit larceny, sixty days, April 7, 1888.
46. William Wilson, black, second offense petit larceny, Reform School during minority.
47. Lewis Beall, black, grand larceny, Reform School during minority.
48. John Frazier, black, larceny, thirty days, April 21, 1888.
49. Thomas Williams, white, petit larceny, three months, April 21, 1888.
50. Charles Williams, black, assault and battery, one year, May 12, 1888.
51. Clayton Mitchell, black, house-breaking, Reform School during minority.
52. Joseph Somers, black, house-breaking, Reform School during minority.
53. John Jackson, black, assault, ninety days, May 12, 1888.

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54. Joseph Hall, black, petit larceny, six months, May 26, 1888.
55. Elizabeth Stewart, black, petit larceny, six months, May 26, 1888.
56. John Harris, black, larceny from the person, Reform School, May 26, 1888.
57. John Barnes, black, larceny from the person, Reform School, May 26, 1888.
58. Jane Dodson, black, keeping a disorderly house, fined \$50 or sixty days, June 2, 1888.
59. James Gray, black, committing depredations on property in the District of Columbia, six months, June 2, 1888.
60. Anderson Christian, black, assault, sixty days, June 2, 1888.
61. Sunny Johnson, alias Black Johnson, black, assault, sixty days, June 9, 1888.
62. Addison Day, black, bawdy house, ninety days, June 16, 1888.
63. Abraham Harper, black, assault, four months, June 16, 1888.
64. James Johnson, white, manslaughter, \$100 or ten days, June 23, 1888.

REPORT OF THE SANITARY OFFICER.

DEPARTMENT OF METROPOLITAN POLICE,
OFFICE OF SANITARY OFFICER,
Washington, D. C., July 1, 1888.

SIR: As will be seen by comparison of the figures herewith the work performed by this office last year was about the same as that of the year previous. A number of pretenders applied during last winter for admission to the hospitals, and if permits had been furnished all the institutions would have been overrun. It will be seen that the number admitted to the insane asylum during the year was in excess of the previous year, but by comparison of the past five years the average is about the same.

I would again respectfully call your attention to the necessity for an inebriate asylum in this city. The need of such an institution becomes more apparent every year. There should be an asylum of this kind where inebriates could be specially confined and treated against their will.

TRANSPORTATION OF THE POOR.

It is part of the duty of this office to furnish transportation to worthy persons found without means and liable to become a charge to the District of Columbia. There were many applicants during the past year, among them quite a number of ex-soldiers and sailors looking for pensions, and others entirely destitute, who, were it not for the fund for this purpose, would have had to be provided for in some of our charitable institutions. I think no money disbursed affords more relief than that thus appropriated, and I therefore recommend the usual appropriation of \$4,000 for the transportation of this class of persons.

AMBULANCE SERVICE.

The work of the ambulances has considerably increased during the year, and whether called day or night, they have always promptly responded. The driver and the assistant driver have performed their duties in a commendable manner. These employes of the department receive meager salaries, in view of the laborious work performed and the responsibility connected therewith, and I would recommend that the salary of the driver be increased to not less than \$60, and that of the assistant to not less than \$50 per month. The thanks of this department are due to the surgeons of police, the physicians to the poor, and the heads of the various hospitals and charitable institutions for the kind and courteous treatment extended.

Very respectfully,

D. H. TEEPLE,
Sanitary Officer Metropolitan Police.

Maj. WILLIAM G. MOORE,
Superintendent of Police.

REPORT OF THE SANITARY SERVICE.

| | |
|--|---|
| Number of drivers | 2 |
| Number of ambulances (one unserviceable) | 3 |
| Number of horses | 3 |

DISPOSITION OF SICK AND DESTITUTE PERSONS.

| | |
|--|-------|
| Sent to Freedman's Hospital..... | 751 |
| Sent to Washington Asylum Hospital..... | 234 |
| Sent to Providence Hospital..... | 497 |
| Sent to Garfield Hospital..... | 58 |
| Sent to Columbia Hospital..... | 18 |
| Sent to Homeopathic Hospital..... | 4 |
| Sent to Children's Hospital..... | 38 |
| Sent to Government Hospital for Insane..... | 162 |
| Sent to almshouse..... | 171 |
| Sent to St. Ann's Infant Asylum..... | 10 |
| Sent to Washington City Orphan Asylum..... | 1 |
| Sent to House of Good Shepherd..... | 1 |
| Sent to Woman's Christian Association..... | 16 |
| Sent to Emergency Hospital..... | 8 |
| Sent to House of Mercy..... | 1 |
| Sent to Naval Hospital..... | 1 |
| Sent to Colored Orphans' Home..... | 1 |
| Sent to Temperance Home..... | 1 |
| Sent to Central Dispensary..... | 2 |
| Sent child to mother in workhouse..... | 1 |
| Sent to workhouse..... | 5 |
| Sent to Foundling Hospital..... | 1 |
| Sent to points for transportation..... | 2 |
| Removed to depots from hospitals or homes..... | 12 |
| Removed to their homes..... | 117 |
| Removed insane to station-houses..... | 1 |
| Removed intoxicated to station-houses..... | 4 |
| Removed to police court..... | 1 |
| Removed from depots to stations..... | 1 |
| Insane persons turned over to relatives..... | 2 |
| Non-resident insane turned over to friends..... | 1 |
| Witnesses conveyed to court or stations..... | 6 |
| Dead bodies removed to morgue..... | 7 |
| Dead bodies removed to their homes..... | 5 |
| Sent to Industrial Home School..... | 6 |
| Removed intoxicated to their homes..... | 2 |
| Examined for insanity and dismissed..... | 1 |
| | 2,149 |
| Miscellaneous runs where service was rendered..... | 952 |
| Miscellaneous runs where service was not rendered..... | 86 |

Ages of sick and destitute.

| | Whites. | | Colored. | | T tal. |
|---|---------|----------|----------|----------|--------|
| | Males. | Females. | Males. | Females. | |
| Under ten years..... | 22 | 17 | 44 | 32 | 115 |
| Between ten and twenty-one years..... | 86 | 49 | 107 | 142 | 384 |
| Between twenty-one and thirty-five years..... | 234 | 117 | 135 | 138 | 624 |
| Between thirty-five and forty years..... | 91 | 39 | 40 | 37 | 207 |
| Between forty and fifty years..... | 152 | 52 | 73 | 25 | 302 |
| Between fifty and sixty years..... | 133 | 47 | 74 | 22 | 276 |
| Between sixty and seventy years..... | 66 | 28 | 35 | 17 | 146 |
| Between seventy and eighty years..... | 38 | 12 | 18 | 12 | 80 |
| Over eighty years..... | 1 | 2 | 9 | 3 | 15 |
| Total..... | 823 | 363 | 535 | 428 | 2,149 |

Nativity.

| | | | |
|----------------|-----|------------------------------|--------|
| Arabia | 6 | Norway | 3 |
| Belgium | 1 | Prussia | 4 |
| Den mark | 1 | Russia | 8 |
| England | 34 | Scotland | 10 |
| France | 12 | Switzerland | 6 |
| Finland | 2 | Sweden | 4 |
| Germany | 91 | Turkey | 2 |
| Hungary | 1 | United States, white | 805 |
| Ireland | 191 | United States, colored | 961 |
| Italy | 7 | | |
| India | 1 | Total | 2, 149 |

OCCUPATIONS OF THE SICK AND DESTITUTE.

| | | | |
|----------------------|-----|-----------------------|-----|
| Actor | 1 | Hackman | 1 |
| Agents | 6 | Harness makers | 3 |
| Artist | 1 | Hucksters | 8 |
| Bakers | 18 | Hod carriers | 10 |
| Barbers | 6 | Hostlers | 6 |
| Bartenders | 3 | Hatters | 5 |
| Bricklayers | 7 | Horse jockeys | 2 |
| Butchers | 6 | Iron worker | 1 |
| Boot-blacks | 2 | Janitors | 2 |
| Blacksmiths | 21 | Jeweler | 1 |
| Book-binders | 3 | Journalists | 2 |
| Boatmen | 5 | Laborers | 497 |
| Brewers | 2 | Lawyers | 4 |
| Book-keepers | 3 | Laundress | 1 |
| Boiler-maker | 1 | Letter carrier | 1 |
| Brakeman | 1 | Locksmith | 1 |
| Brass-finisher | 1 | Miners | 6 |
| Broker | 1 | Merchants | 4 |
| Carpenters | 30 | Messengers | 8 |
| Clerks | 58 | Moulders | 4 |
| Cooks | 15 | Machinists | 4 |
| Cigar-makers | 4 | Musician | 1 |
| Confectioners | 2 | Milkwoman | 1 |
| Contractors | 3 | Masons | 3 |
| Coachmen | 7 | None | 465 |
| Car-drivers | 3 | Nurses | 13 |
| Correspondents | 2 | Newsboys | 3 |
| Coopers | 2 | Oysters shucker | 1 |
| Chair-caner | 1 | Prostitutes | 18 |
| Cabinet-makers | 7 | Painters | 18 |
| Clock-maker | 1 | Plumbers | 4 |
| Canvasser | 1 | Plasterers | 3 |
| Collector | 1 | Peddlers | 14 |
| Clergyman | 1 | Printers | 16 |
| Chambermaid | 1 | Policemen | 4 |
| Drivers | 15 | Porter | 1 |
| Doctors | 3 | Pavers | 3 |
| Druggists | 2 | Physician | 1 |
| Dentists | 2 | Professor | 1 |
| Drover | 1 | Reporters | 5 |
| Dress-makers | 5 | School boys | 1 |
| Engineer | 1 | Stone cutters | 4 |
| Electricians | 3 | Shoemakers | 19 |
| Farmers | 31 | Servants | 417 |
| Firemen | 8 | Sailors | 18 |
| Fishermen | 2 | Seamstresses | 18 |
| Florists | 2 | Soldiers | 4 |
| Fruit-vender | 1 | Salesmen | 2 |
| Flagman | 1 | Store-keeper | 1 |
| Gardeners | 9 | Steam fitter | 1 |
| Grocers | 3 | Spinner | 1 |
| Glazier | 1 | Stenographer | 1 |
| Housekeepers | 103 | Teachers | 5 |
| Hotel-keeper | 1 | Tinners | 12 |

OCCUPATIONS OF THE SICK AND DESTITUTE—continued.

| | | | |
|-------------------|----|------------------|-------|
| Tailors..... | 6 | Waiters..... | 29 |
| Telegraphers..... | 3 | Watchmen..... | 6 |
| Tinkers..... | 5 | Weavers..... | 2 |
| Unknown..... | 12 | Watchmakers..... | 1 |
| Upholsterers..... | 2 | | |
| Wheelwrights..... | 9 | Total..... | 2,149 |

INDIGENTS—WHERE SENT AND WHY.

| | |
|--|-----|
| Number residents sent to friends..... | 60 |
| Number residents sent to places of employment..... | 30 |
| Number ex-soldiers to Hampton Home..... | 25 |
| Number ex-soldiers to friends, seeking admission to Homes..... | 5 |
| Number ex-sailors to Naval Asylum..... | 2 |
| Number looking for pensions, to friends..... | 68 |
| Number looking for Government work, to friends..... | 11 |
| Number "cranks" to friends..... | 6 |
| Number convalescents, to friends..... | 66 |
| Number seeking private work, to friends..... | 139 |
| Number assisted on their way home..... | 142 |
| Number sent home by order D. C. Commissioners..... | 6 |
| Number sent home discharged by Government..... | 4 |
| Number sent to friends, suspicious characters..... | 43 |
| Number sent home, looking for friends..... | 24 |
| Insane persons under escort..... | 1 |
| Incurables come here for hospital treatment sent to friends..... | 2 |
| | 634 |

RESIDENCE OF SICK AND DESTITUTE.

| | | | |
|---------------------------|-------|---------------------|-------|
| California..... | 1 | New Hampshire..... | 2 |
| Delaware..... | 1 | New York..... | 31 |
| District of Columbia..... | 1,538 | New Jersey..... | 4 |
| Florida..... | 1 | North Carolina..... | 5 |
| Georgia..... | 2 | Ohio..... | 16 |
| Indiana..... | 1 | Pennsylvania..... | 17 |
| Illinois..... | 4 | Rhode Island..... | 2 |
| Kansas..... | 3 | South Carolina..... | 2 |
| Kentucky..... | 9 | Virginia..... | 61 |
| Maryland..... | 71 | West Virginia..... | 1 |
| Massachusetts..... | 12 | Unknown..... | 14 |
| Maine..... | 2 | Non-residents..... | 342 |
| Michigan..... | 3 | | |
| Minnesota..... | 1 | Total..... | 2,149 |
| Missouri..... | 3 | | |

PLACES TO WHICH TRANSPORTATION WAS FURNISHED.

| | | | |
|-----------------------------|-----|--------------------------|----|
| Annapolis, Md..... | 1 | Chicago, Ill..... | 3 |
| Arduick, Md..... | 1 | Chillicothe, Ohio..... | 1 |
| Arrington, Va..... | 1 | Cincinnati, Ohio..... | 5 |
| Altcona, Pa..... | 1 | Cannelton, W. Va..... | 1 |
| Annapolis Junction, Md..... | 1 | Culpeper, Va..... | 7 |
| Alexandria, Va..... | 1 | Charleston, S. C..... | 1 |
| Alliance, Ohio..... | 1 | Columbia, S. C..... | 1 |
| Baltimore, Md..... | 173 | Cherry Run, W. Va..... | 1 |
| Brent's Wharf, Md..... | 1 | Cumberland, Md..... | 12 |
| Bay View, Md..... | 1 | Columbia, Pa..... | 2 |
| Bladensburgh, Md..... | 1 | Charlottesville, Va..... | 4 |
| Bowie, Md..... | 1 | Calverton, Md..... | 1 |
| Barnesville, Md..... | 1 | Charleston, W. Va..... | 1 |
| Buckbone, Va..... | 1 | Chester, Pa..... | 2 |
| Berryville, Va..... | 1 | Craigsville, Va..... | 2 |
| Brandy, Va..... | 4 | Chambersburgh, Pa..... | 1 |
| Bellville, Va..... | 1 | Canandaigua, N. Y..... | 1 |
| Brooks, Va..... | 1 | Deer Park, Md..... | 2 |
| Cameron, W. Va..... | 1 | Defiance, Ohio..... | 1 |

PLACES TO WHICH TRANSPORTATION WAS FURNISHED—continued.

| | | | |
|----------------------------|----|------------------------------|-----|
| Detroit, Mich..... | 1 | Marietta, Ohio..... | 1 |
| Deshler, Ohio..... | 1 | Millboro, Va..... | 1 |
| Dover, Del..... | 1 | Millersburgh, Pa..... | 2 |
| Elmira, N. Y..... | 2 | Muirkirk, Md..... | 2 |
| Ellicott, Md..... | 1 | Mifflin, Pa..... | 1 |
| Elkton, Md..... | 1 | Mount Union, Pa..... | 1 |
| Evington, Va..... | 1 | Marshal, Md..... | 1 |
| Fairfax, Va..... | 1 | New York, N. Y..... | 40 |
| Fortress Monroe, Va..... | 33 | Norfolk, Va..... | 33 |
| Fairmont, W. Va..... | 1 | Newark, N. J..... | 3 |
| Frederick, Md..... | 5 | Nomani, Va..... | 3 |
| Fredericksburgh, Va..... | 8 | Newburgh, W. Va..... | 1 |
| Farmwell, Va..... | 1 | Oakland, Md..... | 1 |
| Grafton, W. Va..... | 3 | Odenton, Md..... | 2 |
| Gordonsville, Va..... | 3 | Oswego, N. Y..... | 1 |
| Glencoe, Md..... | 1 | Parkersburgh, W. Va..... | 3 |
| Hagerstown, Md..... | 6 | Philadelphia, Pa..... | 89 |
| Herndon, Va..... | 2 | Pittsburgh, Pa..... | 10 |
| Harrisburg, Pa..... | 16 | Paw Paw, W. Va..... | 3 |
| Hillsdale, Mich..... | 1 | Penice, W. Va..... | 1 |
| High Point, N. C..... | 1 | Petersburgh, Va..... | 3 |
| Halifax, N. C..... | 1 | Pope's Creek, Md..... | 1 |
| Hancock, Md..... | 1 | Piqua, Ohio..... | 1 |
| Harrisonburg, Pa..... | 1 | Richmond, Va..... | 27 |
| Harper's Ferry, W. Va..... | 2 | Raleigh, N. C..... | 1 |
| Hancock, W. Va..... | 1 | Rock Point, Md..... | 1 |
| Huntingdon, Pa..... | 1 | Reedsville, N. C..... | 1 |
| Havre de Grace, Md..... | 1 | Sunbury, Pa..... | 4 |
| Johnstown, Pa..... | 1 | Staunton, Va..... | 1 |
| Jersey City, N. J..... | 3 | Saint Louis, Mo..... | 1 |
| Keyser, W. Va..... | 2 | Somerset, Pa..... | 1 |
| Knoxville, Md..... | 1 | Trenton, N. J..... | 2 |
| Lynchburgh, Va..... | 10 | Tolson's Wharf, Va..... | 2 |
| Lime Kiln, Md..... | 2 | Wilmington, Del..... | 3 |
| Loudon Park, Md..... | 1 | Wheeling, W. Va..... | 2 |
| Livingston, Va..... | 1 | Washington Junction, Md..... | 1 |
| Leesburgh, Va..... | 1 | Weldon, N. C..... | 2 |
| Louisville, Ky..... | 1 | Winchester, Va..... | 1 |
| Laurel, Md..... | 1 | White Hall, Md..... | 1 |
| Marlborough, Md..... | 4 | Warrenton, Va..... | 2 |
| Middletown, Pa..... | 1 | York, Pa..... | 1 |
| Mount Pleasant, Pa..... | 4 | | |
| McKeesport, Pa..... | 3 | Total..... | 634 |

HUMANE AGENT'S REPORT.

OFFICE OF THE WASHINGTON HUMANE SOCIETY,
Washington, D. C., July 1, 1888.

SIR: I respectfully submit the following report of the number and disposition of cases investigated by me during the past year, for violations of the law for the protection of children:

| | |
|---------------------------------|-----|
| Number of cases— | |
| Investigated..... | 194 |
| Prosecuted..... | 19 |
| Fined..... | 6 |
| Sent to grand jury..... | 1 |
| Sent to jail..... | 3 |
| Sent to Reform School..... | 1 |
| Sentence suspended..... | 2 |
| Personal bonds taken..... | 1 |
| Security to keep the peace..... | 1 |
| Nolle prossed..... | 2 |
| Dismissed..... | 2 |
| Amicably adjusted..... | 175 |
| Total..... | 194 |

| | White. | | Colored. | | Total. |
|---|--------|---------|----------|---------|--------|
| | Male. | Female. | Male. | Female. | |
| Number infants abandoned, to St. Ann's Infant Asylum..... | | 1 | 2 | 2 | 5 |
| Number infants abandoned, other homes found..... | | | 1 | | 1 |
| Number children, from parents or guardians, committed to asylums by order of the equity court..... | | 2 | | | 2 |
| Number children, from parents or guardians, committed to asylums by order of the police court..... | | 1 | 1 | 2 | 4 |
| Number children, from parents or guardians, committed to asylums, hospitals, or reformatories by the society agent..... | | | | | 92 |
| Number children sent to hospital..... | 1 | 2 | 3 | 6 | 12 |
| Number children sent to House of Good Shepherd..... | | 4 | | | 4 |
| Number children sent to House of Mercy..... | | 3 | | | 3 |
| Number children sent to Industrial Home School..... | 18 | 3 | | | 21 |
| Number children sent to National Colored Home..... | | | 1 | | 1 |
| Number children sent to Reform School..... | 2 | | | | 2 |
| Number children sent to St. Ann's Asylum..... | 1 | 3 | 3 | 7 | 14 |
| Number children sent to Washington Asylum..... | | 2 | 12 | 11 | 25 |
| Number children sent to Washington City Orphan Asylum..... | 4 | 2 | | | 6 |
| Number children sent to Washington Hospital for Foundlings..... | 1 | 1 | | | 2 |
| Number children sent to homes provided..... | | | 2 | | 2 |
| Total..... | | | | | 92 |

CHAS. W. O'NEILL, M. P.,
Agent Humane Society.

Maj. WILLIAM G. MOORE,
Superintendent of Police.

REPORT OF SURGEONS.

DEPARTMENT OF METROPOLITAN POLICE,
Washington, D. C., July 1, 1888.

SIR: In compliance with instructions from your headquarters, the undersigned has the honor to herewith transmit a report of examinations of applicants for the police force held during the year ending June 30, 1888:

| | |
|----------------------------|----|
| Total number examined..... | 82 |
| Total number accepted..... | 45 |
| Total number rejected..... | 37 |
| | 82 |

Average of rejections, 45 per cent.
Respectfully submitted.

C. H. A. KLEINSCHMIDT,
Secretary Board of Surgeons.

Major WILLIAM G. MOORE,
Superintendent of Police.

ATTENDANCE.

| | No. of men sick. |
|------------------------------------|------------------|
| Surgeon S. A. H. McKim..... | 181 |
| Surgeon J. W. Bayne..... | 130 |
| Surgeon C. H. A. Kleinschmidt..... | 126 |
| Surgeon G. L. Magruder..... | 41 |
| Surgeon A. A. Snyder..... | 76 |

The number of men sick is given, which of course represents many more days' attendance, one officer in some cases requiring a dozen or more visits.

W.

REPORT OF THE CORONER.

CORONER'S OFFICE, DISTRICT OF COLUMBIA,
Washington, August 31, 1888.

GENTLEMEN: In compliance with your request of July 9, I have the honor to transmit herewith a detailed statement of the operations of this office for the year ended June 30, 1888; also an estimate of the amount necessary for the support of the same for the fiscal year ending June 30, 1890.

Respectfully, yours,

D. C. PATTERSON,
Coroner.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Estimate of amount necessary for the support of the coroner's office for the fiscal year ending June 30, 1890.

| | |
|--|---------|
| For salary of coroner..... | \$1,800 |
| For books, blanks, stationery, removal of dead bodies, autopsies, and pay of jurors..... | 700 |
| For care of morgue and furniture for same..... | 300 |
| Total | 2,800 |

Tabular statement of deaths certified by the coroner during the year ending June 30, 1888.

Willful violence :

Suicides—

| | |
|-------------------------|---|
| By gunshot wounds..... | 2 |
| By incised wound..... | 1 |
| By irritant poison..... | 6 |
| By drowning..... | 1 |
| By hanging..... | 3 |

Homicides—

| | |
|------------------------------------|---|
| By gunshot wounds..... | 5 |
| By incised wounds..... | 2 |
| By punctured wound..... | 1 |
| By other weapons and missiles..... | 6 |
| Infanticides..... | 9 |
| Neglect at birth..... | 5 |

Accidents and negligence :

| | |
|------------------------------|----|
| Choked by food..... | 1 |
| Drowning..... | 17 |
| Fall from building, etc..... | 18 |
| Overlaid by mother..... | 6 |
| Pistol-shot wounds, etc..... | 3 |
| Run over by cars, etc..... | 13 |
| Still-births..... | 76 |
| Sun-stroke..... | 11 |

Tabular statement of deaths certified by the coroner, etc—Continued.

Diseases:

| | |
|-----------------------------|----|
| Albuminuria..... | 1 |
| Aneurism of aorta..... | 6 |
| Apoplexy..... | 9 |
| Bronchitis, capillary..... | 7 |
| Bronchitis, chronic..... | 1 |
| Cancer, uterine..... | 1 |
| Cholera infantum..... | 17 |
| Cholera morbus..... | 1 |
| Cirrhosis of liver..... | 1 |
| Colic..... | 1 |
| Congestion of brain..... | 2 |
| Congestion of lungs..... | 29 |
| Convulsions..... | 5 |
| Convulsions, infantile..... | 2 |
| Croup..... | 2 |
| Debility, congenital..... | 36 |
| Debility, senile..... | 6 |
| Diarrhœa..... | 17 |
| Dropsy..... | 2 |
| Epilepsy..... | 1 |
| Exhaustion..... | 4 |
| Fever, malarial..... | 1 |
| Fever, typhoid..... | 1 |
| Gastritis..... | 3 |
| Gastro-enteritis..... | 1 |
| Heart-clot..... | 1 |
| Heart disease..... | 37 |
| Hydrocephalus..... | 1 |
| Hydrothorax..... | 2 |
| Inanition..... | 23 |
| Intussusception..... | 1 |
| Marasmus..... | 4 |
| Paralysis..... | 4 |
| Pericarditis..... | 1 |
| Peritonitis..... | 3 |
| Phthisis pulmonalis..... | 33 |
| Pneumonia..... | 26 |
| Protracted labor..... | 1 |
| Pulmonary hemorrhage..... | 6 |
| Rupture of heart..... | 2 |
| Serofula..... | 2 |
| Stomatitis..... | 1 |
| Syphilis..... | 1 |
| Tetanus..... | 2 |
| Trismus nascentium..... | 15 |
| Unknown..... | 19 |
| Uræmia..... | 2 |

SUMMARY.

Deaths:

| | |
|--|------|
| White..... | *160 |
| Colored..... | †369 |
| Color unknown..... | 1 |
| Males..... | 315 |
| Females..... | 212 |
| Sex unknown..... | 3 |
| Total suicides..... | 13 |
| Total homicides..... | 14 |
| Total infanticides, etc..... | 14 |
| Total by accidents and negligence..... | 69 |
| Total by disease..... | 344 |
| Total still-births..... | 76 |
| Total certified by the coroner..... | 530 |

* 30.2 per cent.

† 69.7 per cent.

Tabular statement of deaths certified by the coroner, etc—Continued.

OCCUPATION.

| | | | |
|------------------------|----|------------------------------|-----|
| Attorney..... | 2 | Machinist..... | 1 |
| Baker..... | 2 | Messenger..... | 2 |
| Barber..... | 1 | Miller..... | 1 |
| Barkeeper..... | 1 | News dealer..... | 1 |
| Blacksmith..... | 2 | Painter..... | 2 |
| Brakeman..... | 1 | Plasterer..... | 2 |
| Brick-maker..... | 1 | Plumber..... | 1 |
| Brush-maker..... | 1 | Policeman..... | 1 |
| Butcher..... | 2 | Porter..... | 2 |
| Butter dealer..... | 1 | Printer..... | 2 |
| Carpenter..... | 3 | Sailor..... | 1 |
| Cart driver..... | 1 | School-boy..... | 4 |
| Caterer..... | 1 | School-girl..... | 2 |
| Clergyman..... | 1 | Seamstress..... | 1 |
| Clerk..... | 6 | Servant..... | 14 |
| Conductor..... | 1 | Shoe-maker..... | 1 |
| Contractor..... | 1 | Soldier..... | 6 |
| Cook..... | 3 | Standbuilder..... | 1 |
| Dairyman..... | 1 | Stone-cutter..... | 2 |
| Dress-maker..... | 1 | Stone-mason..... | 1 |
| Driver..... | 2 | Student..... | 1 |
| Engineer..... | 1 | Superintendent..... | 1 |
| Farmer..... | 2 | Tailor..... | 1 |
| Fireman..... | 2 | Teacher..... | 1 |
| Glue manufacturer..... | 1 | Teamster..... | 1 |
| Hod-carrier..... | 2 | Telegrapher..... | 1 |
| Housekeeper..... | 16 | Vice-president railroad..... | 1 |
| Huckster..... | 1 | Waiter..... | 2 |
| Laborer..... | 48 | Watchman..... | 1 |
| Lamplighter..... | 1 | Remaining..... | 354 |
| Laundress..... | 7 | | |
| Lawyer..... | 2 | | 530 |

CAUSE OF DEATH, COLOR, AGE, ETC.

| Cause of death. | Total deaths. | White. | | Colored. | | Age. | | | | | | | | | | | | | |
|-------------------------------|---------------|--------|---------|----------|---------|----------------|--------------------------------|---------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| | | Male. | Female. | Male. | Female. | Under 1 month. | Between 1 month
and 1 year. | 1 to 5 years. | 5 to 10 years. | 10 to 20 years. | 20 to 30 years. | 30 to 40 years. | 40 to 50 years. | 50 to 60 years. | 60 to 70 years. | 70 to 80 years. | 80 to 90 years. | Over 100 years. | |
| | | | | | | | | | | | | | | | | | | | |
| Zymotic diseases | 64 | 4 | 3 | 24 | 33 | 8 | 45 | 6 | 1 | 1 | .. | 1 | .. | .. | 1 | 1 | .. | ... | |
| Constitutional diseases. | 41 | 3 | 6 | 11 | 21 | 1 | 2 | 5 | 1 | 5 | 5 | 5 | 2 | 4 | 9 | 1 | 1 | ... | |
| Local diseases | 177 | 31 | 23 | 64 | 59 | 19 | 27 | 18 | 1 | 5 | 11 | 14 | 37 | 19 | 12 | 11 | 3 | ... | |
| Developmental diseases | 43 | 4 | 1 | 22 | 16 | 37 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 4 | 1 | |
| Violence | 110 | 58 | 9 | 33 | 10 | 10 | 5 | 1 | 3 | 17 | 23 | 9 | 14 | 15 | 9 | 3 | 1 | ... | |
| Still-births..... | 76 | 7 | 4 | 41 | 24 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ... | |
| Unknown..... | 19 | 6 | 1 | 7 | 5 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ... | |
| Total | 530 | 113 | 47 | 202 | 168 | 75 | 79 | 30 | 6 | 28 | 39 | 29 | 53 | 38 | 31 | 17 | 9 | 1 | |

Tabular statement of deaths certified by the corner, etc—Continued.

| Cause of death. | Nativity. | | | | | | | | | | | |
|------------------------------|----------------------------|--------------------------------------|----------|---------|---------|----------|----------|---------|-----------|---------|--------|----------|
| | District of Colum-
bia. | Other parts of the
United States. | Austria. | Canada. | France. | Germany. | Ireland. | Russia. | Scotland. | Sweden. | Wales. | Unknown. |
| Zymotic diseases..... | 60 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Constitutional diseases..... | 12 | 26 | ..... | ..... | ..... | ..... | 2 | ..... | 1 | ..... | ..... | ..... |
| Local diseases..... | 84 | 78 | 1 | 2 | ..... | 1 | 10 | ..... | ..... | ..... | ..... | 1 |
| Developmental diseases..... | 37 | 5 | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... |
| Violence..... | 45 | 49 | ..... | ..... | 1 | 5 | 7 | 1 | ..... | 1 | 1 | ..... |
| Still-births..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Unknown..... | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Total..... | 257 | 162 | 1 | 2 | 1 | 6 | 20 | 1 | 1 | 1 | 1 | 1 |

SOCIAL RELATION ABOVE THE AGE OF TWENTY YEARS.

| Sex and color. | Widow or
widower. | Married. | Single. | Total. |
|----------------------|----------------------|----------|---------|--------|
| White, male..... | 7 | 34 | 28 | 69 |
| White, female..... | 12 | 12 | 7 | 31 |
| Colored, male..... | 5 | 43 | 19 | 67 |
| Colored, female..... | 24 | 13 | 12 | 49 |

MONTHLY MORTALITY.

July, 59; August, 46; September, 37; October, 39; November, 25; December, 49;
January, 43; February, 44; March, 41; April, 53; May, 42; June, 52.

X.

REPORT OF THE COMMISSIONERS OF PHARMACY.

WASHINGTON, D. C., *July 18, 1888.*

GENTLEMEN: I have the honor to submit the following report of the transactions of the commissioners of pharmacy, for the two years ending with this date.

Respectfully,

R. B. FERGUSON,
Secretary.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REGISTRATIONS.

| | |
|---|-----------|
| Total registrations reported July 22, 1886..... | 350 |
| Registrations from July 22, 1886, to July 18, 1888: | |
| By examination..... | 14 |
| Graduates of pharmacy..... | 29 |
| | <hr/> 43 |
| Total registrations to date..... | <hr/> 393 |

RECEIPTS.

| | |
|---|--------------|
| Cash on hand and reported July 22, 1886..... | \$374.19 |
| Cash received from July 22, 1886, to July 18, 1888: | |
| For examination fees | \$160.00 |
| For registration of graduates..... | 87.00 |
| | <hr/> 247.00 |
| Total..... | <hr/> 621.19 |

EXPENDITURES.

| | |
|--|--------------|
| Rent of room, light, and fuel..... | \$120.00 |
| Postage..... | 5.00 |
| Printing..... | 12.50 |
| Advertising..... | 4.65 |
| Secretary's salary, two years..... | 200.00 |
| Stationery..... | 15.00 |
| | <hr/> 357.15 |
| Balance (on deposit in National Bank, Washington)..... | <hr/> 264.04 |

Y.

REPORT OF THE COMMITTEE ON LIBRARIES AND ANNUAL REPORT.

To the honorable the Commissioners of the District of Columbia.

GENTLEMEN: We have the honor to submit herewith the report of the board of trustees of the public schools for the year ending June 30, 1888.

For statistics of attendance, accommodations, expenditures, number of teachers employed, with the salary of each, and other similar subjects of appropriate inquiry, reference is made to the accompanying reports of Superintendents Powell and Cook, which are adopted and appended as a part of this report.

In most respects the close of the school year 1887-'88 marks a hopeful advance in the general conditions attending our public schools and essential to their welfare and success. The liberal appropriations by Congress during the past two years for additional school buildings has materially reduced what two years ago was the greatest and most overshadowing need of the schools, and a continuance of similar liberality for the next year or two will doubtless wholly supply the deficiency in that regard which at that time so seriously impaired their efficiency.

The manual training and the night schools have been most successfully conducted; and while, to those interested in them, the annual appropriations for their maintenance seem to fall materially short of their development and manifest capacity for good, an increasing interest in and disposition to sustain and foster them, both upon the part of Congress and in the community, gives hope and encouragement for their future.

The relations between the teachers, the officers, and the board have been, in the main, exceptionally harmonious and pleasant; the order of the schools has been excellent, the progress and proficiency of the pupils has been highly satisfactory to parents and officials alike, and the public schools continue to grow in favor with all classes of our citizens. The matters at this time most urgently needing the attention of yourselves and of Congress are two, viz: The needed accommodations for the pupils of our high schools, and the insufficient pay of our teachers; and with a view of presenting these urgent needs especially to your consideration, and through you to that of the law-making power, the specific recommendations of this report will be confined to these two subjects.

THE HIGH SCHOOLS.

The recommendation contained in the last two reports of the Board, relative to a new and suitable building for the colored high school, is respectfully and earnestly renewed. As stated in the last report—

the building at present used in part for the purposes of this school is in an extremely inconvenient location for the great body of the pupils for whom it is designed; it has little or no special adaptation for the purpose, and, in addition, every available seat in it is urgently needed to supply the wants of the section of the city in which it

stands for schools of lower grades. The number of pupils in attendance is now between three and four hundred; the school is a most useful and important factor in the moral and intellectual development of a large and deserving portion of the population of the District, bearing their due share of taxation and other public burdens; and we submit that a suitable high-school building, comparing favorably in location and appointments with the Washington High School, is both necessary and just.

With reference to the Washington High School, the following is extracted from the report of the Board for the last preceding school year, changed only to show the facts existing last year:

THE WASHINGTON HIGH SCHOOL.

Your attention is again invited, respectfully but most urgently, to the imperative necessity of enlarging the Washington High School Building. In our report for last year, the following language was employed upon this subject:

"The present High School Building is crowded to its utmost capacity, and, with a largely increased attendance over that of last year in the schools of the eighth grade, it necessarily follows either that the capacity of that building must be enlarged before the opening of the next school year, or that a large number of pupils entitled to admission there must be excluded for want of accommodation. The latter alternative is one which, in justice to the youth of the District and to the community, every effort, it is hoped, will be exerted to avert."

The failure of this recommendation to meet the approval of Congress has been attended by the unfortunate consequence, as shown by the report of Principal Lane, that 398 of our pupils, whose proficiency and deportment have entitled them to admission to the High School, are unavoidably denied its privileges except for one-half of each day of the school year. At the present rate of increase in attendance, no diminution of which is either to be expected or desired, the number of pupils so circumstanced will, for the next and succeeding years, inevitably be considerably larger, unless additional accommodation is provided; resulting in a discrimination between equally meritorious pupils neither fair nor just, and a hurtful restriction of school privileges as to a large number of them, to which they should not be subjected.

The self-obviously necessary enlargement thus recommended by the Board in its report for last year was antagonized, and presumably defeated, by the objection that the accommodation for the lower grades was also insufficient, and that, of the two, the latter were entitled to paramount consideration.

If the alternative really is to deprive either the lower or the higher grades of educational opportunity, this Board concurs unanimously and most heartily in the proposition above stated. It is deemed proper, however, to invite your attention, and through you that of the law-making power, to the following considerations, namely:

In all grades below the High School, each school of children is under the charge of a single teacher, taught in a single room, and requiring little or no apparatus or appliances for their due and efficient instruction other than such as can be readily supplied to the room they occupy. Until, therefore, school buildings adequate to the accommodation of the school population of this District can be afforded, the evil can be at least alleviated by the creation of a rental fund, such as was given us for the current year by Congress at its last session, by the aid of which the accommodations we have can be supplemented by such as can be rented. These are frequently, and indeed generally, not well adapted to the purpose, and should be availed of only by reason of emergency, until adequate and suitable accommodations can be provided.

No such temporary relief, however, can be afforded the pupils of the overcrowded High School. In it the instructors teach, not classes, but subjects. The same teachers instruct in due rotation, in the same class-rooms and with the aid of the same apparatus, all the classes in the natural sciences, for example; and so it is with the instructors in language, in mathematics, and in each of the other subjects taught. It is, consequently, indispensable that the High School Building should accommodate all High School pupils. Supplemental accommodations in the way of rented school-rooms would necessitate supplemental sets of teachers, apparatus, and appliances, which it would, of course, be impossible to provide.

In the light of these facts and with a view to the due accommodation and advantage of all the school-going population of the District, the enlargement of the High School Building before the opening of the next school year is, in the opinion of the Board, a public necessity, urgently calling for prompt attention at the hands of the Commissioners and of Congress.

For the school year just ended, the number of pupils restricted to half-day attendance, as shown by the report of the principal, Dr. F. R. Lane, was 400, out of a total attendance of 997. For the current year

the total attendance bids fair to approximate 1,200 pupils, with accommodations for about 750; so that, inasmuch as to afford accommodation for any part of the day to the 400 students in excess of the capacity of the building a like number of the 750 must be unseated for such part of the day, it is obvious that the entire institution will probably be limited to half-day instruction by the next school year unless relief is afforded. Notwithstanding the impossibility of appropriate relief through the renting of other rooms for the High School pupils pointed out in the foregoing extract from last year's report, the Board has been compelled to resort to it, with all its disadvantages, for the present school year, and still the school facilities of 400 of its pupils have unavoidably been cut down to one-half of each school day.

THE PAY OF TEACHERS.

Upon this subject we beg to reproduce from last year's report the following considerations, changed only to show the conditions existing at the time embraced by this report:

The salary of messengers throughout the departments of the Government is fixed by Congress at \$340 per annum—that of what are known as assistant messengers is \$720 per annum; while the average salary of the cultivated men and women who constitute the teachers of our public schools is limited to \$670 per annum, or only \$10 per annum more than that of a laborer in the departments. All reside in the same community and are subject to the same general conditions which regulate the cost of the necessities of life. That the average salary thus allowed teachers is, in the city of Washington, barely adequate to the comfortable and decent support of a single person occupying that position in life, and that it affords no possible margin for provision for sickness or old age, to say nothing of the maintenance of a family, must be apparent, not only to every citizen, but to every temporary sojourner in our midst.

Whatever difference may exist upon other subjects, the Board feels that it represents the entire community in expressing its regret at the remarkable discrimination against this most important, useful, and meritorious body of workers above pointed out. Nor is it for a moment believed, if only its attention to the subject can be secured, that the Congress of the United States will accord inferior consideration and recompense to the educating class, the teachers of our public schools, than to others whose duties are neither so important nor exacting, whose qualifications are of a less difficult order, and to whom the cost of living certainly is not greater.

The statistics contained in the report of Superintendent Powell point to a curious peculiarity of the public schools of the District of Columbia, and one which should be given due consideration in fixing the average salary to be allowed our teachers. In the public schools of all cities to whose statistics access has been had, the attendance largely preponderates in the lowest grades; the higher grades, which are the most costly, being comparatively thinly attended. But in the District of Columbia, in the white schools, while attendance in the primary grades, as compared with the population of school-going age, is fully equal to that of the most favored of our sister cities, the attendance in the higher grades is surprisingly uniform with that of the primary grades, and would indicate that, in this District, the children generally continue in school throughout the first five grades, and that substantially half of them continue throughout the entire eight grades. Thus, in the first six divisions for the last school year, there was enrolled in the first grade 4,018 pupils, in the second 3,197, in the third 3,250, in the fourth 3,329, and in the fifth 3,041; while in the sixth there were 2,457, in the seventh 1,905, and in the eighth 1,576. The enrollment in the High School was 997.

In the schools for colored children there is a diminished attendance as the grades ascend, more in accordance with the statistics of other cities. Thus, during the past year, the number of colored children in attendance in the first grade was 4,228, in the second 2,070, in the third 1,481, in the fourth 1,013, in the fifth 854, in the sixth 460, in the seventh 308, and in the eighth 225, with 361 in the High School.

The peculiarity of the white schools of the District in the particular here pointed out is easily explained. As stated, the attendance in the primary grades as compared with the population of school-going age, is equal to that of the most favored of our sister cities. But the absence of large manufacturing and other industrial enterprises deprives us of a class of pupils common to other cities, whose educational privileges are usually limited to the lowest or primary grades. With fewer accumulations of large fortunes, the wealth of the District is more equally distributed than

in most large cities ; and with us the average citizen is able to afford to his children opportunity to take the full course of instruction provided in the public schools. The result, and the conditions which give rise to it, are matters of congratulation to the community, and can not fail to be gratifying to all friends of education ; but, as the salaries of teachers in the higher are necessarily larger than those in the lower grades, it is a self-obvious proposition that the relative cost of maintaining the schools must be greater, and that the average salary of the teachers should be proportionately higher. If in the white, as in the colored schools, three-fifths of the pupils were in the first and second grades, it would be perhaps quite possible to organize and to efficiently and satisfactorily conduct the public schools of the District upon the basis of an average salary of \$670 per annum per teacher. Under the conditions as they exist, it is respectfully submitted, a material increase in the prescribed averaged salary should be made.

After careful consideration of the matter, the board unanimously recommends an increase of \$15 in this prescribed average salary, making it \$685 instead of \$670 per annum. Such an enlargement would but slightly increase the total expenditure for the support of the schools, but would add greatly to the satisfaction of our teachers and to the efficiency of the schools, and, we are very sure, would be cordially approved by the tax-payers of the District.

In this connection, also, your attention is also called to the necessity of the removal or modification of the restriction accompanying the appropriations for the last three school years, prohibiting the increase in the number of teachers in any grades now receiving \$900 or more. As pointed out in last year's report, our eighth-grade schools share in the general increased attendance of pupils from year to year, and, as the result of this restriction, we now have 14 schools of this grade, to which we have been unable to assign eighth-grade teachers. In addition, our High School has grown from 827 pupils, when the restriction first went into effect, to nearly or quite 1,200 now ; the result being that, with the salaries we have been compelled to offer, we have lost nearly all of our more experienced teachers, and have been compelled to form a teaching force composed almost wholly of young college graduates, of marked ability and acquirements in many instances, but wholly inexperienced, and whom we can not hope to retain at salaries less than \$900 when they have acquired experienced efficiency in their vocation. We are compelled to admit that the High School has suffered from the causes here recited, and that its high and well-earned character can not long be sustained if it shall continue to be subjected to their operation. We submit, further, that no reason exists in the financial condition of the district which necessitates, or, in the opinion of the board, will justify, such curtailment of appropriations for its support as will impair its efficiency, or deny to the youth of the National Capital, in the final years of their educational course, the benefit of experienced instructors, such as, in all other large cities, are intrusted with the conduct and management of similar institutions. We urgently recommend that, if any limitation whatever of this character is thought necessary, the limitation now be fixed at least as high as \$1,200 instead of \$900.

IN MEMORIAM.

In concluding this report it is our melancholy duty to note the serious loss which the public schools and the cause of education in the District of Columbia have sustained in the death of William M. Curtis, trustee of the fifth division, which occurred on the 3d day of September, 1888. For fourteen years and more a member of the board of trustees, a zealous and untiring friend of the schools, bringing to this service and to the promotion of their best interests a rare degree of intelligence, practical judgment, tact, wisdom, and fidelity, his long, faithful, and most efficient

services entitle his name to honorable and enduring remembrance and gratitude upon the part of both the public schools and the people of this District.

Respectfully submitted:

A. H. WITMER, M. D.,
JAS. M. GREGORY,
J. J. DARLINGTON,
Committee, Board of Trustees.

WASHINGTON, D. C., *December 1, 1888.*

REPORT OF SUPERINTENDENT POWELL.

To the Board of Trustees of Public Schools of the District of Columbia :

GENTLEMEN: I have the honor to present a report of the schools under my supervision, which comprise the white schools of the city and the white and colored schools of the District outside the city, for the year ending June 30, 1888.

It gives me pleasure also to hand to you the reports made to me by the supervising principals of the six divisions, the reports of the directors of music and drawing, and those of the principals of the Washington High School and of the Washington Normal School. These reports show you the condition, as understood by their respective authors, of all the kinds and departments of schools. A study of these reports will show not only what the schools are doing and what the pupils accomplish, but also the purpose of the efforts made to educate the children as well as many of the means by which the work is done.

ATTENDANCE.

There were enrolled in the schools during the year 23,810 pupils, 22,054 white, and 1,756 colored children. This is an increase of 737, or 3.1 per cent. over the number registered the preceding year.

The average enrollment was 19,762, which is 477 or 2.4 per cent. more than that of the previous year.

The number of pupils in daily attendance was 18,210, being 300 or 1.7 per cent. in excess of that of the preceding year.

The tables following explain themselves :

Enrollment of pupils in the several kinds and grades of schools for the school year ending June 30, 1888.

| | |
|---------------------|--------|
| Normal School..... | 40 |
| High School | 997 |
| <hr/> | |
| Grammar schools: | |
| Eighth grade | 1,576 |
| Seventh grade | 1,905 |
| Sixth grade | 2,457 |
| Fifth grade | 3,041 |
| Total | 8,979 |
| <hr/> | |
| Primary schools: | |
| Fourth grade | 3,329 |
| Third grade | 3,250 |
| Second grade | 3,197 |
| First grade | 4,018 |
| Total | 13,794 |
| <hr/> | |
| Grand total..... | 23,810 |

SCHOOLS.

The number of schools below the High School was as follows:

| | |
|-----------------------------------|-----|
| Grammar schools, city: | |
| Eighth grade | 29 |
| Seventh grade | 34 |
| Sixth grade | 44 |
| Fifth grade | 50 |
| Total | 157 |
| Primary schools, city: | |
| Fourth grade | 51 |
| Third grade | *48 |
| Second grade | *48 |
| First grade | *49 |
| | 196 |
| County schools: | |
| White | 29 |
| Colored | 30 |
| Total | 59 |
| Grand total | 412 |
| Number of whole-day schools | 323 |
| Number of half-day schools | 89 |
| Total | 412 |

The average number of pupils to a school was as follows:

| | |
|----------------------------------|------|
| High School (to a teacher) | 33.2 |
| Grammar schools: | |
| Eighth grade | 52.1 |
| Seventh grade | 52.1 |
| Sixth grade | 52.0 |
| Fifth grade | 54.5 |
| Primary schools: | |
| Fourth grade | 57.7 |
| Third grade | 56.6 |
| Second grade | 51.4 |
| First grade | 64.2 |
| County schools: | |
| White | 52.3 |
| Colored | 58.5 |

TEACHERS.

Four hundred and sixty-three teachers were employed, as follows:

| | |
|------------------------------|----|
| Supervising principals | 6 |
| Normal School | 5 |
| High School | 30 |
| Grammar schools, city: | |
| Eighth grade | 29 |
| Seventh grade | 34 |
| Sixth grade | 44 |
| Fifth grade | 50 |
| Primary schools, city: | |
| Fourth grade | 52 |
| Third grade | 46 |
| Second grade | 46 |
| First grade | 47 |

* Two of these schools were taught by Normal School pupils.

| | |
|-----------------------------------|----|
| County schools : | |
| White | 29 |
| Colored | 31 |
| Teachers of music | 2 |
| Teachers of drawing | 3 |
| Teachers of manual training | 5 |
| Teachers of cookery | 2 |
| Teachers of sewing | 2 |

Total 463

The cost of the schools for supervision and teaching was as follows :

| | |
|---|-------------|
| Supervision : | |
| Superintendent | \$2,700.00 |
| Clerk | 1,200.00 |
| Messenger | 300.00 |
| Six supervising principals | 12,000.00 |
| Total | \$16,200.00 |
| Cost per pupil (estimated on average enrollment 19,762) | .81 |

| | |
|--|-----------|
| Normal School : | |
| Principal | 1,350.00 |
| Two teachers | 2,000.00 |
| Two teachers | 1,450.00 |
| Total | *4,800.00 |
| Cost per pupil (estimated on average enrollment, 40) | 48.90 |

| | |
|---|-----------|
| High School : | |
| Principal | 2,500.00 |
| Twenty-nine teachers | 22,899.33 |
| Total | 25,399.33 |
| Cost per pupil (estimated on average enrollment, 913) | 27.81 |

| | |
|---|------------|
| Grammar schools, city (29 eighth, 34 seventh, 44 sixth, 50 fifth grade schools) | 126,650.00 |
| Cost per pupil (estimated on average enrollment, 7,111) | 17.81 |
| Primary schools, city (52 fourth, 48† third, 48† second, 49† first grade schools) | †99,875.00 |
| Cost per pupil (estimated on average enrollment, 9,146) | 11.23 |

| | |
|---|-----------|
| County schools : | |
| 29 white schools | 19,000.00 |
| 30 colored schools | 18,625.00 |
| Cost per pupil (estimated on average enrollment) : | |
| White (1,177) | 16.14 |
| Colored (1,381) | 13.48 |
| Special teachers (2 music teachers and 3 drawing teachers) | 4,800.00 |
| Cost per pupil (estimated on average enrollment, 19,762) | .24 |
| Teachers of manual training schools (of carpentry 4, of metal working 1, of cookery 2, of sewing 2) | 4,975.00 |
| Cost per pupil (estimated on whole enrollment, 2,743) | 1.82 |
| Average cost per pupil for tuition in all the schools (based on average enrollment, 19,762) | 15.39 |

REMARKS AND SUGGESTIONS.

A school report should show, first, the purpose of the school as a whole, of each branch or department thereof, as well as of each grade or step in every kind of school; second, should set forth the means and processes employed by the supervision to accomplish such purposes; third, should detail the results obtained as nearly as possible, noting and emphasizing the failures or partial failures, as well as the successes; fourth, should suggest such changes, either of purposes or of plans, as would result in better educating those who attend the school.

* This includes the cost of teaching 6 practice schools.

† Two of these schools were taught by normal pupils.

‡ To be increased by the cost of teaching 6 practice schools (\$2,844).

The enrollment and attendance, the regularity and promptness, the cost of the different kinds of schools and the cost per capita of the different kinds of instruction, as well as the entire cost, are to be found in the tables accompanying this report, and constitute the most uninteresting part thereof. "Figures," it is said, "never lie." Yet, in school statistics, if it is not known how they are obtained, figures may be the most deceiving rascals that ever told a tale. High percentages of attendance and punctuality on the face of them indicate advanced educational processes at school and high educational sentiment in the community, whereas they may have been obtained at the expense of the better and nobler impulses of the child, of the better and broader view of learning and growth, of other and equally valuable privileges afforded outside the school.

The teacher should know the value of sequence, continuity, and determined effort, and should seek to impress their importance upon the mind of every pupil, and should be estimated by his knowledge of causes of absence or tardiness rather than by the percentages made in either of these by his pupils.

The educating forces of the cultivated home and of society are so numerous and so valuable as auxiliaries for broadening and making practical the work of the schools that absence or tardiness occasioned by desire or opportunity may sometimes be excused in the pupil seeking these advantages. I would not encourage irregular attendance. Such is not the purpose of my writing. I wish only to emphasize the advisability and fairness of distinguishing between absence occasioned by carelessness of pupil or parent and that occasioned by opportunity and desire to profit by other valuable means of cultivation. Furthermore, I wish to emphasize the importance of recognizing the possibilities of the less fortunate of those who send to our schools, and to avoid, if possible, debarring from school privileges, even for a part of a week or a part of a day, any who may be detained from school a day or more to aid an indigent parent in the support of his family or to assist a poor, hard-working, self-sacrificing mother in caring for an infant brother or sister for a part of the forenoon.

To know the cause of absence, to detect, encourage, and reform the careless and the wayward, to know and to strive to reform the criminally careless and indifferent by all legitimate means should be encouraged in and made possible to our schools.

I believe that the percentage of attendance, as shown by our records, is as good as it ought to be with our present facilities for knowing the causes of absence and tardiness, and that a more stringent enforcing of our present rules would do more harm than good.

The discrepancy between the whole enrollment of pupils and the average enrollment of pupils demands more serious consideration. The whole enrollment was 34,850; the average enrollment, 28,553. This means that every month in the year, on an average, the monthly enrollment was 6,297 less than the entire enrollment of the schools. Now, many causes operate to produce this result. Many children are enrolled in the schools who leave the city and thus leave the schools; many children are enrolled in the upper grades of schools who leave to engage in the active pursuits of life, to become bread-winners; many children leave to go to other schools; some leave because of sickness or death. But, after considering all possible legitimate causes for withdrawing from the schools, it is undoubtedly true that many absent themselves from school by the consent of their parents or because of slight restraint

of parental authority who pass their time in idleness or in corrupting indulgences and pastimes that lead to debauchery and criminality.

To more perfectly understand this subject it may be looked at from another stand-point. In the census taken by Col. William G. Moore, major and superintendent Metropolitan police, and his assistants, June 15, 1888, by order of the honorable Commissioners of the District of Columbia, the following facts are found: Whole number of inhabitants, 218,157; whole number of children of school age (from six to seventeen years, inclusive), 51,500; whole number of children enrolled in public and private schools (public schools, 34,850; private schools, 3,119), 37,969.

It is well known that very many persons of school age, embraced in this enumeration, have passed through the schools and graduated therefrom; that very many others have attended the schools for a longer time than would be required by any existing compulsory law in the States; others are educated at home, and still others are not in school because they are invalids. Yet there must be some who do not go to school at all and others who go for so short a time that no permanent good is obtained by their attendance.

In looking at this subject I call your attention to the fact that the difference between the school population of the District and the average enrollment in the schools should be considered rather than the difference between the school population and the whole enrollment, the former of which is 20,389 and the latter 13,531.

No community is safe in the presence of an unemployed, aimless, or purposeless element. The larger such element the greater the danger to the community. No community can safely permit any portion of the population of school age to be idle and purposeless.

The remedy, so far as the schools can furnish it, lies first in affording school accommodations for all who ought to go to school; not basement rooms, dark, damp, and unwholesome, not garrets, not rented stables, not contracted school-rooms, with low ceilings and no ventilation, not school-rooms to be shared by two sets of pupils, one in the forenoon, the other in the afternoon. These are not inducements; these are barriers; these ill compare with the allurements to vice and sin; these are meager in comparison relatively with the inducements that must elevate a free people, for the eternal must that elevates the free-man is ever in front alluring, and never behind compelling.

The remedy, on the part of the schools, lies next in doing efficient and interesting work, so varied as to suit the capacities of all the children and to meet the requirements of our composite nationality and our varied modes of life and advanced industries. The child should see something that he wants. If he does he will ask for it.

The question we should be able to answer is: How many of this large number of children of school age not in the schools ought to be there? Another question should be asked, to be honest: Are any of these absentees driven from the school, after being enrolled therein, because of methods for obtaining high percentages? These questions can not be answered with our present facilities for knowing. I believe a less rigid enforcement of our rules for attendance, with our present possibilities for knowing the causes of absence or tardiness, would result in the encouragement of carelessness or indifference that would be hurtful. I am not prepared to believe, however, that we are doing all that ought to be done to bring into our schools all that should be there.

Several experiments have been made in county schools during the last two years. In several cases it was found that a large number of

children of school age in the respective localities was not attending school. The reasons for this non-attendance were sought by the teachers, who visited the homes of the children, and were found to be—

The indifference of children;

The indifference of parents;

The poverty of parents (inability to buy school-books or proper clothing).

In but few cases was it found that children were detained at home to assist in the support of the family. Many parents were induced by these visits to send to school, and in every case the schools whose teachers had thus canvassed were filled to overflowing by the efforts thus made. No force was employed; none was necessary. The schools were filled by a better method. Now, it must be remembered that these teachers did this canvassing or visiting as extra work, after school hours. I wish here to express my appreciation of their efforts.

If we could have a truancy agent, whose duty it should be, by direction of the superintendent or other specified authority, to seek out the absent or tardy, the cause of whose shortcomings can not be known by the teacher, I believe that most children who ought to be in school might be caused to attend without arbitrary compulsion. I am sure, at least, that many children who do not go to school at all might thus be induced to attend, and equally sure that many children who are dropped from our rolls because of our rules regulating attendance would return to school and thereby would the aggregate attendance be greatly increased and the number of those who would not be reached so reduced as to be well-nigh inconsiderable.

Until now, a suggestion to increase our school attendance would have been looked upon in the light of a jest, as we have not had room for those who presented themselves.

A truancy law without a truancy agent would be inoperative. A truancy agent, by skillful management under wise direction, would accomplish everything desired. I suggest this mode of dealing with truancy and non-attendance as one that is economical and in harmony with the underlying principle of free schools.

It is your privilege and duty to know in what light the superintendent and his assistants view the school and its several agencies—the house, its fitness and appointments; the teacher, his qualifications and methods; the appliances, their purposes and management; the child, its duties and possibilities.

It is further your duty and privilege to know how the superintendent and his associates understand and interpret the course of instruction you have prescribed for the schools. You are respectfully invited to examine the reports of the supervising principals and other principals and directors. I take especial satisfaction in calling your attention to these as showing just what you desire to know.

It will be seen by these that the health of the pupil is first attended to.

VENTILATION.

The school-rooms that have been provided during the last ten or more years are cheerful, thoroughly ventilated, and healthful. I am glad to be able to say the system of ventilation employed, ventilates and ventilates in spite of the preoccupation of the teacher or of the janitor. In respect of heating, lighting, and ventilation, nothing more is to be desired in

the new buildings. Some of our older buildings, however, although fine, imposing structures, are poorly ventilated or are not ventilated at all. The more prominent of the former are the Franklin and the Jefferson; of the latter, the Wallach and the Cranch. Nothing, to my mind, should be urged more strongly, save only additional accommodations, than the improvement of the ventilating processes in the buildings named and in a few others. So easily may this be done, and at such a trifling expense comparatively, with the knowledge now possessed, that I should feel myself remiss did I fail to call your attention to this most urgent need and thus emphasize the suggestions of my co-laborers.

HEALTH OF PUPILS.

The manual training now given to boys, together with their active and varied sports, afford much exercise for them. The industrial work for girls and their sports are less beneficial, afford less of vigorous exercise. Neither the industries nor the sports insure that systematic physical training or cultivation that is desired.

Exercise is not cultivation. Exercise specifically directed and methodically taken results in cultivation.

Calisthenic exercises are now employed by some of our teachers but not by all and, I fear, not by many. The work done by these is apt to be spasmodic and, not being continued by the succeeding teacher of the school, is of little value comparatively.

Gratified with the healthfulness of well-ventilated school-rooms as also with the variation of activities secured by the industrial processes of our schools, I still believe that more should be done for the physical welfare of the girls attending school. I may mention here also that basement play-rooms crowded to excess are, I fear, not health-giving, though they may for a time afford pleasure and recreation.

The good effects of the military drill given to the boys in the High School are apparent, whether the boys drill, march in military garb, walk across the school-room, or sit in recitation. These results are obtained by methodical exercises, each of which is had for a definite purpose. The lack of corresponding training is noticeable in the movements, not only of girls in the High School but also in those below the High School, but the painful manifestation of the lack of physical cultivation is the absence of vigor and the presence of lassitude.

The exercises of the school should be an alternation of mental and physical effort, both of which to be most profitable must be specifically directed and methodically done. If during the physical exercises the perfect ventilation of the room is assured, the school would become a place to be sought and attended for health and physical cultivation, as well as for mental growth and improvement.

I suggest the employment of two or more teachers of health exercises. These teachers would occupy the same relative positions that are held by the teachers of drawing or of music, and would do their work in a corresponding way. Pupils might by this means be trained systematically in manual exercises as well as in vocal exercises by the special teachers visiting the schools at stated intervals to give the instruction, the regular teacher repeating and supplementing the exercises for recreation and cultivation during the intervals of absence of the special teacher. Such exercises would help in the reading lessons, in the music lessons, in the drawing and writing lessons, and would give health and grace to all the children.

THE TEACHERS.

I wish to call your attention to the high estimate of the teachers and their work held by the supervising principals. The ability, faithfulness, energy, and success of the teachers are not more strongly set forth in these reports than they deserve to be.

APPLIANCES.

We need more reference books and reading books to enrich our course of study. These have been added to by various means alluded to by the supervising principals. The teachers have been indefatigable in their efforts to secure means of more and better information for the children on the different topics pursued in their respective schools.

Effort is constantly made to reduce the didactic, *memoriter* methods to the minimum and to employ investigating, laboratory, library methods in all the teaching. With a single meager text-book in the hands of a child success in this direction is not possible. The highest tribute that I can give to our teachers, on the professional side, is to say that they realize and believe this, and are untiring in their efforts to secure working materials and appliances suited to the respective purposes of the school and capacities of the learner. Much of this material has been supplied from the contingent fund. Books have been bought for wider reading in history and biography, geography and travel, science and literature, and placed in the respective grades. Colored splints for laying forms, colored paper for folding and cutting, paper for model-making, clay, and other materials have been furnished to insure regular and uniform effort in the schools. The demands upon the contingent fund, however, are so great, requiring the seating of many school rooms inadequately provided for by the appropriation for new buildings, that it was impossible to do what we had desired and hoped to do in this direction last year.

A working library, as well as objects for investigation and illustration, must be provided for each school-room, suited to the purposes of the work in the room and graded to the capacities of the children who attend, before the kind of teaching can be done which our supervising principals ask done and the majority of the teachers desire to do, and that is demanded by the intelligence and advanced thought and processes of present life. To accomplish this most desirable condition has been the constant effort of the supervising corps aided by the efforts of the teachers, and by many parents and friends supplementing what has been done from the contingent fund. Gratifying advancement has been made in all divisions, in all the grades of the schools and in nearly every school-room. The public libraries and museums of the city have been drawn upon largely for books and for observation lessons by many of the more enterprising teachers. The inconvenience of these helps, however, is apparent. They can not be utilized except by teachers favorably situated, the result of which is that the children most needing them do not share them. It is the duty of the school to provide the necessary appliances.

THE COURSE OF STUDY.

For a knowledge of the interpretation and the use of the course of study and the several monograph manuals supplementing it, you are respectfully asked again to study the accompanying reports of my col-

leagues. The broad view there found of the purposes of this course of instruction in all the different branches of study and all grades of the same is most gratifying. So also should the processes therein commended, as well as the processes therein condemned, be most gratifying to every parent who sends to school and to every lover of true growth and cultivation.

MANUAL TRAINING.

The school year was marked by the formal introduction of manual training into the curriculum of the public schools of the District.

Everything done in this branch of education was done with the purpose, ultimately, of adding the different parts thereof to the course of instruction and introducing them into their respective grades of school throughout the District. The appropriation for manual training, \$5,000 (for plant only), was such that this could be only partially accomplished the past year.

That the value and practicability of the work might be tested it was engrafted in its entirety on the schools of a portion of the District. For instance, carpentry work, cooking, and sewing were introduced into all the schools of the third division in which it is proposed to teach these subjects respectively.

A corresponding introduction of these studies was made in some schools of the second and fourth divisions and also in the high school.

The estimate given to these manual training exercises by those whose schools were affected is found in the various reports of the supervising principals. The consensus of opinion there found, given as they were after a year's observation and practical experience, with all the disadvantages that such training can possibly offer to a school system, is to my mind the strongest argument in favor of manual training that I have ever heard or read, and my investigation of this subject has been wide and thorough.

The character, divisions, and scope of the work in manual training, as now taught in our schools, is set forth under the following heads:

DRAWING.

The subject of drawing gives the initial work for developing manual skill. Through its entire course, from the first grade to the high school, inclusive, it is divided into two parts—construction and representation. In the constructive part, hand and eye are trained while, at the same time, ideas concerning the forms made are developed. The work of representation gives manual training by the drawing of the constructed forms. It does more—it correlates physical and mental processes. A scientifically constructed form induces systematic, scientific methods of thought. The thought logically and accurately expressed by oral and written composition complements, perfects, the physical culture secured by the construction and drawing. I mention constructive language because I believe that, as a means of the most complete training as well as a matter of school economy, the manual and mental processes should co-operate on the same subjects. Each is defective without the other, and without such complementary work the training is one-sided still.

In the first three grades, modeling in clay, stick-laying, paper-folding, weaving and various other processes of the Kindergarten system unite hand and eye and mind in constructing and drawing geometric forms

and natural forms based on these. Constructive language is taught in the first grade and follows the entire course. The fourth grade continues the preceding work, notably that of paper-folding and cutting and also modeling in clay. The forms made and drawn are applied to objects of ornament and use. Invention is employed for decorative purposes. Neat and workman-like processes involving the use of many tools, such as needle, thimble, scissors, hammer, nails, etc., are here taught. The fifth grade includes work like that of the fourth, with the addition of the construction of working drawings. From these drawings patterns are made and objects constructed, after which the completed objects are represented by drawings. This addition continues through the remainder of the course.

The thought of progressive development runs through all construction and representation. Each year introduces more intricate designs, more skilled execution of objects and representation. In the high school, wooden forms in clay and cardboard are made. Constructional, free-hand, and mechanical drawings have place here as well as executed designs for wall paper and fabrics. Owing to this one branch of manual training many of the graduates of the high school have become designers, draughtsmen, and architects.

The points emphasized are the scientific construction of models by all the pupils; representation by drawing these models or other objects, rather than by drawing from flat surfaces; the stimulation of the inventive faculty by design work for ornamental and other useful purposes, and the co-operation of the mental and physical powers.

SEWING.

Throughout the District, at this writing, sewing teachers, eight in number, teach classes of girls of the fourth, fifth, and sixth grades. Seven thousand girls are taught plain sewing, running, hemming, felling, darning, and button-hole stitch, etc. This work has served a double purpose—the one for which it was designed, that of giving instruction in sewing, and another, that of increasing the interest in other school work. It refreshes and invigorates; it introduces a marked change which breaks up the ordinary dull routine so destructive to the spirit of real, intelligent work.

COOKING.

Two thousand girls from the seventh and eighth grades and from the high school receive instruction in cooking at the hands of nine teachers. Each cooking school has for its use a kitchen and a mixing-room complete in their appointments. Each is also supplied with blackboards for the representation of many of the food substances which, without such aid, would be less thoroughly understood. Instruction is given on food materials—their nature, sources, effects on both body and mind and consequent relative values. Much of the work makes application of the physics regularly taught in the schools. This, with the thorough study of food materials, the experiments, observations, and inferences made by the pupils, gives the work in cooking a scientific and at the same time a practical basis. The course in cooking is here presented:

COOKING.—SYNOPSIS.

| | | | |
|------------------------------|--|---|--|
| COOKING..... | { 1. Definition. | | |
| | { 2. Purposes. | | |
| | { 3. Processes. | | |
| | { 4. Incidental and general information respecting materials, sources, processes of preparing and combination, care and selection of materials | | |
| 3. PROCESSES .. | { a. Boiling. | | |
| | { b. Stewing. | | |
| | { c. Broiling. | | |
| | { d. Baking. | | |
| | { e. Frying. | | |
| | { f. Preserving. | | |
| a. BOILING..... | { Definition. | | |
| | { Materials | meats | { fresh—beef, mutton, fish, poultry. |
| | | | { cured—beef, pork, fish, tongue. |
| | | vegetables | { soup—beef, lamb, mutton, fish, poultry. |
| | | | { large—potatoes, beets, onions. |
| | | doughs..... | { small—beans, peas, grains, etc. |
| | { Utensils. | | { dumplings. |
| | | | { roly-poly puddings. |
| | | liquids..... | { custards. |
| | | | { sauces. |
| | | | { beverages—tea, coffee, cocoa. |
| b. STEWING..... | { Definition. | | |
| | { Materials | meats. | |
| | | vegetables. | |
| | | fruits. | |
| | | haricot. | |
| | | ragout. | |
| | { Kinds | salmi. | |
| | | chowder. | |
| | | fricassee. | |
| | | pot-pie. | |
| | | braising. | |
| c. BROILING.... | { Definition. | | |
| | { Materials | steaks | { veal. |
| | | | { beef—sirloin, tenderloin, porterhouse, flank, round. |
| | | chops—pork, lamb, mutton. | |
| | | fish—shad, salmon, cod, etc. | |
| | { Utensils | oysters. | |
| | | clams. | |
| | | bread. | |
| | | gridiron. | |
| | | broiler. | |
| d. BAKING..... | { Definition. | | |
| | { Materials | bread (raised by yeast). | |
| | | bread (raised by baking powder). | |
| | | meat—beef, mutton, pork, fish, poultry. | |
| | | cake (loaf—small). | |
| | { Utensils | pies. | |
| | | puddings. | |
| | | vegetables. | |
| | | | |
| | | | |
| e. FRYING..... | { Definition. | | |
| | { Materials..... | fish. | |
| | | oysters. | |
| | | poultry. | |
| | | batters. | |
| | | cakes. | |
| | { Utensils | | |
| | { (kettle—pan), | | |
| | { | | |
| | { | | |
| | { | | |
| f. PRESERVING... Kinds | { by sugar (fruits). | | |
| | { by vinegar (fruits, vegetables) | | |
| | { by salt, smoke, ice (meats). | | |

and natural forms based on these. Constructive language is taught in the first grade and follows the entire course. The fourth grade continues the preceding work, notably that of paper-folding and cutting and also modeling in clay. The forms made and drawn are applied to objects of ornament and use. Invention is employed for decorative purposes. Neat and workman-like processes involving the use of many tools, such as needle, thimble, scissors, hammer, nails, etc., are here taught. The fifth grade includes work like that of the fourth, with the addition of the construction of working drawings. From these drawings patterns are made and objects constructed, after which the completed objects are represented by drawings. This addition continues through the remainder of the course.

The thought of progressive development runs through all construction and representation. Each year introduces more intricate designs, more skilled execution of objects and representation. In the high school, complex forms in clay and card-board are made. Constructional, free-hand, and mechanical drawings have place here as well as executed designs for wall-paper and fabrics. Owing to this one branch of manual training many of the graduates of the high school have become designers, draughtsmen, and architects.

The points emphasized are the scientific construction of models by all the pupils; representation by drawing these models or other objects, rather than by drawing from flat surfaces; the stimulation of the inventive faculty by design work for ornamental and other useful purposes, and the co-operation of the mental and physical powers.

SEWING.

Throughout the District, at this writing, sewing teachers, eight in number, teach classes of girls of the fourth, fifth, and sixth grades. Seven thousand girls are taught plain sewing, running, hemming, felling, darning, and button-hole stitch, etc. This work has served a double purpose—the one for which it was designed (that of giving instruction in sewing) and another, that of increasing the interest in other school work. It refreshes and invigorates; it introduces a marked change which breaks up the oft-time dull routine so destructive to the spirit of real, intelligent work.

COOKING.

Two thousand girls from the seventh and eighth grades and from the high school receive instruction in cooking at the hands of nine teachers. Each cooking school has for its use a kitchen and a mixing-room complete in their appointments. Each is also supplied with blackboards for the representation of many of the food substances which, without such aid, would be less thoroughly understood. Instruction is given on food materials—their nature, sources, effects on both body and mind and consequent relative values. Much of the work makes application of the physics regularly taught in the schools. This, with the thorough study of food materials, the experiments, observations, and inferences made by the pupils, gives the work in cooking a scientific and at the same time a practical basis. The course in cooking is here presented:

COOKING.—SYNOPSIS.

| | | | |
|-------------------|--|---|--|
| COOKING..... | { 1. Definition. | | |
| | { 2. Purposes. | | |
| | { 3. Processes. | | |
| | { 4. Incidental and general information respecting materials, sources, processes of preparing and combination, care and selection of materials | | |
| 3. PROCESSES.. | { a. Boiling. | | |
| | { b. Stewing. | | |
| | { c. Broiling. | | |
| | { d. Baking. | | |
| | { e. Frying. | | |
| | { f. Preserving. | | |
| a. BOILING..... | { Definition. | | |
| | { Materials | meats | { fresh—beef, mutton, fish, poultry. |
| | | | { cured—beef, pork, fish, tongue. |
| | | | { soup—beef, lamb, mutton, fish, poultry. |
| | | vegetables | { large—potatoes, beets, onions. |
| | | | { small—beans, peas, grains, etc. |
| | { | doughs | { dumplings. |
| | | | { roly-poly puddings. |
| | | | { custards. |
| | { Utensils. | liquids | { sauces. |
| | | | { beverages—tea, coffee, cocoa. |
| | | | |
| b. STEWING..... | { Definition. | | |
| | { Materials | meats. | |
| | | vegetables. | |
| | | fruits. | |
| | | haricot. | |
| | | ragout. | |
| | { Kinds | salmi. | |
| | | chowder. | |
| | | fricassee. | |
| | | pot-pie. | |
| | | braising. | |
| c. BROILING.... | { Definition. | | |
| | { Materials | steaks | { veal. |
| | | | { beef—sirloin, tenderloin, porterhouse, flank, round. |
| | | chops—pork, lamb, mutton. | |
| | | fish—shad, salmon, cod, etc. | |
| | | oysters. | |
| | { Utensils | clams. | |
| | | bread. | |
| | | gridiron. | |
| | | broiler. | |
| | | spit. | |
| d. BAKING..... | { Definition. | | |
| | { Materials | bread (raised by yeast). | |
| | | bread (raised by baking powder). | |
| | | meat—beef, mutton, pork, fish, poultry. | |
| | | cake (loaf—small). | |
| | | pies. | |
| | { | puddings. | |
| | | vegetables. | |
| | | | |
| | | | |
| | | | |
| e. FRYING..... | { Definition. | | |
| | { Materials | fish. | |
| | | oysters. | |
| | | poultry. | |
| | | batters. | |
| | | cakes. | |
| | { | | |
| | { | | |
| | { | | |
| | { | | |
| | { | | |
| f. PRESERVING.... | { Utensils | | |
| | { (kettle—pan), | | |
| | { Kinds | by sugar (fruits). | |
| | | by vinegar (fruits, vegetables). | |
| | | by salt, smoke, ice (meats). | |

COURSE IN DETAIL.

First Year. Seventh Grade.

BOILING.

A.

1. Talk about cooking to discover what it is, how it affects food materials, and what is needful for cooking.
Heat; natural and artificial.
Fuel; wood, charcoal, coal, gas.
Give directions for making a fire and make one.
2. Teach boiling by means of experiments.
 - (a) Heat a cup of water, noting the change in temperature from time to time. Note simmering and boiling.
 - (b) Compare, by boiling, fresh and salt water with respect to density. Experiment with eggs and blocks of wood. Discover that it takes longer to boil salt water than it does to boil fresh water.
 - (c) Put a piece of fresh meat into boiling water for a short time. Note the result to meat and water. Cut the meat and note the result.
Show the effect to meat and water of cold water on meat (this requires some time). Cut the meat and note the result. Boil the water.
 - (d) Break an egg into boiling water and another into cold water. Note the results.
Boil the cold water with the egg. Draw inferences.
Hot water hardens albumen.
To retain the nutriment in the article boiled put the article into boiling water and boil; to have nutriment mix with the water put the article into cold water and boil.
 - (e) Make beef tea.
NOTE.—Have the meat prepared for the first class; after which let each class prepare meat for the succeeding one.
3. Boil meat to prepare the same for food.
Boil meat for broth.
4. Make jellied soup stock.
NOTES.—Teach which parts of meat (beef, mutton, and lamb) are used for soups. Show economy of making stock. Teach the pupils how to distinguish between fresh and stale meats (appearance, smell, etc.).
5. Poach eggs.

B.

1. Experiment with salted and smoked meats.
Put salted meat into cold water; then show that the water is salty by tasting it and by testing its density. Whence comes the salt? Conclusion.
NOTE.—Salt; what it is, where found, how prepared for market.

C.

1. Experiment with starch and flour.
 - (a) Cut a potato into thin slices and soak it in cold water. Pour off the water. Show that starch is a fine powder found in grains and vegetables. Show starch cells in potato. Microscope.
 - (b) Pour cold water over some starch, mix, and let it stand for a short time. Stir again and pour on boiling water. Stir and note the result.
 - (c) Pour boiling water over dry starch. Stir and note the result.
 - (d) Make like experiments with flour. Draw conclusions.
 - (e) Dip a potato into boiling water. Note the result.
 - (f) Pour boiling water over oatmeal. Note the result. Draw conclusion.
2. Make blanc mange.
NOTE.—Cornstarch; from what and how obtained, how prepared, substitutes.
3. Make a roux; plain, egg, and caper sauces.
4. Boil, mash rice and potatoes; boil beets, onions, and squash.
NOTE.—Give directions for preparing and cooking other vegetables.
5. Make either vegetable soup or celery purée.
6. Boil oatmeal (cracked wheat, cerealine).
7. Boil rice and make rice custard.
8. Boil coffee and cocoa. Steep tea.
NOTE.—Coffee, cocoa, tea; from what and how obtained? Properties and value of each.

D.

Utensils used in boiling.

An intelligent study of the materials from which the utensils are made.

STEWING.

1. Experiment with tough meat and vegetable acids, such as lemon juice and vinegar. Compare tender and tough meat before and after soaking in the acid. Show where in the animal tough pieces of meat are found. Explain why they contain so much nutriment and show their value as food.
2. Make a beef stew.
3. Make an Irish stew without dumplings.
4. Braise a calf's heart or smother a piece of beef.
5. Haricot mutton.
6. Stew fruit (apples, prunes, etc.).
7. Make "bubble and squeak."

NOTE.—Pepper, }
Butter, } From what and how obtained.
(Substitute), } Use and value in cooking.

BROILING.

1. Broil a steak (beef or veal).
(a) Compare results obtained with those obtained by putting meat into boiling water.
(b) Names and positions of best stakes.
2. Broil chops, mutton, lamb, or pork.
(a) Positions of chops.
(b) Lard and oleomargarine; from what and how made; use; value.
3. How to select different kinds of meat by appearance.
4. Toast bread.
5. Utensils used in broiling.

BAKING.

1. Experiment with yeast, soda, cream of tartar, sour milk, and baking powder.
(a) Mix soda and cream of tartar with cold water. Show the presence of carbonic acid gas. (Lighted taper.)
(b) Pour water over baking powder. Show the presence of gas.
(c) Mix soda with sour milk. Show the presence of gas and that the milk is sweet.
(d) Mix baking powder or soda and cream of tartar with flour, moisten and make a dough. Put one-half into a hot oven immediately; allow the other half to remain exposed to the air for a short time, then put it into the oven. Note the difference. Cause of difference. Draw conclusions.
(e) Make yeast. Talk about the yeast plant or germ; from what and how obtained; proper temperature necessary to growth. What is caused by the growing? Fermentation. Microscope. Show presence of carbonic acid gas in yeast. Mix yeast with a little flour and note the result.
2. Make white bread and rolls with potato yeast.
(a) Kneading; length of time, motion, etc.
(b) Compressed yeast.
(c) Flour; from what and how obtained; kinds; properties and value of each; processes.
3. Make biscuits (baking powder).
4. Make muffins (soda and cream of tartar).
5. Make corn bread (soda and sour milk).
6. Make Graham gems.
7. Roast meat.
(a) Compare the appearance of roast meat with that of boiled meat.
(b) Best pieces for roasting.
(c) Basting.
(d) Solid and rolled roasts.
8. Give, incidentally, the arrangement of oven dampers; kind of fire necessary for baking and proper temperature of the oven.

Second year. Eighth grade.

BOILING.

1. Review facts learned about boiling and obtain a definition.
2. Boil mutton.
(a) For the broth.
(b) For the meat. Make caper sauce.

3. Boil fish. Make egg sauce.

NOTE.—Give directions for selecting and cleaning fish.

4. Raising, slaughtering, and packing of meat. Means of preserving. Principal cities for this industry. Markets.
5. Boiled corned beef and cabbage.
6. Boil cauliflower. Make egg sauce.
7. Make apple dumplings and sugar sauce.
8. Make roly-poly pudding and sauce.
9. Make soft custard.
10. Make salad dressing.
11. Make potato salad.

STEWING

1. Oysters.
 - (a) Stewed.
 - (b) Scalloped.
2. Chowder.
3. Make a fricassee of beef or stew beef with carrots.
4. Make a white stew and a pot-pie.

BROILING.

1. Broil a shad, a herring, or any other fresh fish.
2. Broil a salted mackerel or any other salted fish.
3. Broil a smoked fish.
4. Broil a slice of ham.
5. Broil oysters.

BAKING.

1. Review facts learned about carbonic acid gas, fermentation, and heat for baking.
2. Make white bread, Graham bread, and brown bread.
3. Stuff and bake a fish.
4. Make cake.
 - (a) Cookies.

NOTE.—Spices; from where and how obtained; their properties and use in cooking.
 - (b) Ginger snaps.
 - (c) Dover cake.

NOTE.—Citron; from where and how made.
 - (d) Sponge cake.
 - (e) Jelly cake.
5. Make pies.
 - (a) Pie paste.
 - (b) Apple pie (peach, rhubarb, etc.).
 - (c) Lemon pie (custard, etc.).
6. Make puddings.
 - (a) Bread.
 - (b) Cottage pudding.
 - (c) Sago, rice, or tapioca.

NOTE.—Sago, tapioca, rice; from what and how obtained; how prepared for market.
7. Baked apples and potatoes.

FRYING.

1. Experiment with fat.
 - (a) Show that pure fat will not boil.
 - (b) Show that fat containing water boils.
 - (c) Show the proper temperature of fat for cooking by putting pieces of dough or a little beaten egg into it at different times (before it is hot enough, when hot enough, and when burning). Note the difference and draw conclusions.
2. Show the economy in the use of eggs in kettle-frying.
3. Scramble eggs.
4. Make an omelet.
5. Make griddle cakes.
6. Make fritters.
 - (a) Batter.
 - (b) Salsify, parsnip, corn, etc.
 - (c) Apple, oyster, clam, etc.
7. Make doughnuts (raised by yeast).
8. Make crullers (raised by baking powder).

Third year. High school.

The third year's course in cooking has not been fully developed, as it will not be needed this year, but when developed it will include the preparation of more difficult dishes than those before given; the preparation of fancy dishes; the preparation of dishes for invalids; and the preserving of meats, vegetables, and fruits.

SHOP-WORK.

To give breadth and scholastic power to the work, instruction is given in the qualities and appearances of different woods under various conditions, the sources of supply, the uses and commercial values; the nature of iron, the location and importance of iron fields, the processes necessary to fit it for use and the uses; the manufacture and uses of steel, with sufficient historical study of these subjects to show the influence of their use upon the material development of the country.

The aim is to make this work practical in all its bearings. To this end a degree of accuracy, accompanied by the economical use of tools and material, is required.

Twelve teachers are required to teach 1,700 boys from the seventh and eighth grades and from the high school. The course commences with the seventh grade. It includes the correct use of tools, the laying out of the work, with the aid of knife, pencil, and try-square, and the making of chamfered blocks, moldings, and various T-joints. Simple special pieces are made, such as tool-racks, shelves, and squares for school-room use. Towel-racks and steps for the cooking schools are successfully undertaken. Originality is developed by designing and by making objects which are constructed from original working drawings. The eighth grade shows more difficult constructions than the seventh.

In the high schools many articles of school furniture are made for the laboratories, the cooking schools, and the other schools.

After learning the care and management of the fire and the shifting of belts, forging is introduced by heating and drawing to a point a square rod of iron. This shows the value of care and attention in the performance of the simplest tasks. More difficult work in iron follows, which is succeeded by work in steel, including drawing and the making of punches and chisels, which are tempered and hardened by the pupils themselves. Each pupil is required to continue his efforts until he has made a chisel which will cut iron and steel without injury to itself.

In the department of wood-turning, practice is given with chisels, gouges, calipers, and other wood-turning tools. Elementary work in this branch is soon followed by more useful and difficult designs, including drawing models for the schools of the city, standards for physical apparatus, telephone receivers, Indian clubs, etc.

The practice in molding includes molding from a simple flat pattern, from turned patterns, and from those of difficult design. Thus far the work has been limited to two-part flasks and the casting of cylinders, hollow cylinders, wheels both plain and grooved, handles, etc. This training gives the pupil a knowledge of molding, the difference between cast and wrought metal, and also a knowledge of correct forms for patterns from which he is to mold. As far as practicable it is intended that the pupil shall make a casting from a pattern which he has made from his own drawing.

In the draughting-room the elements of mechanical drawing are taught.

Including the drawing teachers, there are 33 teachers engaged in industrial work.

COURSE IN SHOP-WORK.

SEVENTH GRADE.

Bench-work.—The correct method of using planes, handsaws, chisels, gouges, brace and bits, hammer, gauge, and other tools in the working of different kinds of wood. The laying out of work with knife and pencil, using try-square, bevel, and dividers. Simple joint-making from blackboard sketches, and one piece constructed from an original working sketch.

EIGHTH GRADE.

Bench-work.—The making of more complex joints from blue prints, jig-sawing, and one piece constructed from an original finished working drawing.

The making of articles of practical utility for the schools and shops. Plain cabinet-making, involving the use of brads, nails, screws, and glue.

HIGH SCHOOL.

First year.—Draughting, simple molding. Wood-turning, including elementary pattern work.

Second year.—Pattern-making, including lathe and bench work. Molding and casting in soft metal from patterns made. Forging—drawing, upsetting, bending, punching, welding, and use of swages, fullers, etc.

THIRD YEAR.

Completion of course in forging—making of steel tools, involving hardening and tempering, and lectures in elementary metallurgy.

Filing and chipping.

Machine-work, iron-turning, drilling, chucking, etc., on engine-lathe. Use of shaper in making surfaces. Hand-tooling, drilling, and polishing, in speed-lathes.

Draughting of machine-work and the taking of blue prints.

I submit herewith some statements respecting the manual training schools that were furnished the United States Senate, first session Fiftieth Congress, in response to a resolution asking for the same.

These show the cost of the plant of the respective kinds of schools, as also the cost of material used in the same.

O Street:

| | |
|--|-----------------|
| School of cookery: For chairs, table, wash-stand, cupboard, dishes, refrigerator, range, boiler and fittings | \$202.20 |
| School of carpentry: For benches, \$180; tools, \$211.94; lumber and nails, \$4.64 | 396.58 |
| (The benches and tools used in the High School last year furnished one of the shops in this building.) | |
| School of turning: For molding tools, \$16.51; forges, lathes, and tools for same, \$545.70; shafting, belting, pulleys, and fittings, \$439.08; engine, \$799 | 1,800.29 |
| Total | 2,399.07 |

Peabody Annex:

| | |
|--|---------------|
| School of cookery: For chairs, table, wash-stand, cupboard, dishes, refrigerator, range, boiler and fittings | \$202.20 |
| School of carpentry: For benches and tools | 391.94 |
| Total | 594.14 |

Jefferson School:

| | |
|--|-----------------|
| School of carpentry: For benches and tools | 391.94 |
| Grand total | 3,385.15 |

Cost of materials to January 1, 1888:

| | |
|----------------------------|---------------|
| Schools of cookery | 81.23 |
| Schools of carpentry | 144.70 |
| School of turning | 45.60 |
| Total | 271.53 |

Cost of materials to June 30, 1888 (estimated):

| | |
|----------------------------|---------------|
| Schools of cookery | 100.00 |
| Schools of carpentry | 150.00 |
| School of turning | 50.00 |
| School of sewing | 60.00 |
| Total | 360.00 |

The number of pupils trained in each school of carpentry is 180—15 classes of 12 each. The number of pupils instructed in each school of cookery is 225—15 classes of 15 each. The sewing teacher gives instruction in the regular school room and teaches all the girls of the school.

The time given is, in the school of carpentry, two lessons a week of one hour each, or one lesson a week of two hours' duration; in the school of cookery, one lesson a week of two hours; in the sewing classes, one lesson per week of one hour's duration.

RELATIVE COST OF INSTRUCTION PER PUPIL.

| | |
|------------------------------|---------|
| In the normal school | \$48.90 |
| In the high school | 27.81 |
| In the grammar schools | 17.81 |
| In the primary schools | 11.23 |
| Of drawing and music | .24 |
| Of manual training | 1.82 |
| Total cost per pupil | 15.39 |

The above table is made to show the relative cost of manual training. It must be remembered that the schools of carpentry and of cookery require school-rooms, involving the cost of fuel and pay of janitors. To this must be added also the cost of materials.

ENTIRE COST.

The entire cost of the schools per pupil, which includes the cost of manual training, was \$19.11, while the entire cost of manual training per pupil, including the cost of janitors, fuel, and incidentals, was \$2.27.

A less comprehensive statement than the above would be misleading and unfair. Manual training will add to the expense of education. To show the cost of schools without manual training, however, it will not be correct to subtract \$2.27 from \$19.11, as the cost of the manual training schools was included in bulk with the entire cost of the schools and divided by the average enrollment. The amount to be subtracted from \$19.11 is \$0.31. The proper statement, then, is:

| | |
|--|---------|
| Cost of school (per pupil) without manual training | \$18.80 |
| Cost of school with manual training | 19.11 |

In the above statement the cost of buildings and permanent improvements is not included.

KINDERGARTENS.

The kind of school that has been most far-reaching in its influence on education and is the most important of all introductions into, or changes of, the educational thought of the world is the kindergarten. The kindergarten, with its methods, in this country, has not only revolutionized the processes of primary instruction, but has changed its purpose. I mean to say that the primary school is taught for a different purpose since the introduction of the kindergarten, with its underlying truths and philosophies showing the true character of child-mind and the true purpose of educating processes.

The especial value of the kindergarten, in connection with the graded system of schools, is that it takes the child at an earlier age and fits him for student life without repressing or doing violence to child nature physically, mentally, or morally, thus insuring the prevention of much pernicious growth which is so difficult to eradicate.

No school system can be perfect without the kindergarten, as no school system can afford to ignore the advantage of its training for good or to undo that which has been ill-done or wrongly done before the child becomes of school age and presents himself for instruction.

The benefits of the kindergarten are most valuable to those children whose homes are less fortunate and whose parents are less cultivated.

I respectfully suggest the establishment of kindergartens as a part of our system of schools. At the beginning, it would probably be wise to start a few—two or three or more. That they may do the most good, these should be located in those portions of the city inhabited by those who go from home to engage in the occupation of the day, leaving their younger children in the care of older brothers and sisters.

THE HIGH SCHOOL.

The high school of the first six divisions, its purposes and its condition, are fully set forth by the principal, Dr. F. R. Lane.

These facts must demand your earnest attention. It is unfortunate that this school is considered in the light of one separated from the graded schools. It ought not to be so considered; it is not such in fact. The grades of the high school are but a continuation of the graded system beginning in the school for the child of six years. Schools are provided for the children or beginners, and are further provided for those children, year by year, as they advance in age and acquirements, growing less in number, because some of the children withdraw to engage in the active pursuits of life. Thus, in the upper grades, because of the smaller number of schools, the children must go farther to attend school. When several schools of the same grade are reduced in numbers, one or more of them are discontinued. A school of a higher grade, however, is provided whenever children of school age of sufficient number to make a school present themselves and ask instruction. Whenever a sufficient number of children who have passed the eighth and last grade of the grammar schools, who are yet of school age, present themselves for further instruction, a school is provided for them, and, because the supply comes from all parts of the school territory, it has been found desirable (why I have never been able to ascertain) to call this grade a high school. The name has done it infinitely more harm than good. The high school in any town or community is simply the highest grade of school in that community—neither more nor less—and it is high, absolutely, in proportion to the intelligence, aspirations, possibilities, and liberality of the community. The term *high school* in this country does not mean to-day, and never did mean, a specialized, definite school or course of instruction.

The step from the grammar school to the high school is no greater, no more difficult to make, than that from any grade of the grammar schools to the next higher. Laboratory methods, requiring appliances and opportunities, are employed no more in this school, relatively, than in the grammar school, and not to so great an extent, relatively, as in the primary school.

The plant affording all the necessary laboratory processes is more expensive in the high school than in the lower grades of school. This is another reason for massing high-school children.

I recall with pleasure, in making retrospect of the year's labors, the active interest taken in all departments of schools by the honorable Commissioners, the faithful and intelligent work of the teachers, the professional sympathy and co-operation of the supervising heads of the

schools, and, lastly, the assistance of the trustees, who have given me their counsel and advice and have shared with me the responsibility of every important duty discharged.

I am, with high esteem, yours, respectfully,

W. B. POWELL,
Superintendent of Schools.

WASHINGTON, D. C.,
November 1, 1888.

SCHOOL ACCOMMODATIONS.

Buildings and rooms owned and rented in the first six divisions at the close of the school year ending June 30, 1888 (excluding the Washington High School).

| | First division. | Second division. | Third division. | Fourth division. | Fifth division. | Sixth division. | Total. |
|------------------------|-----------------|------------------|-----------------|------------------|-----------------|-----------------|--------|
| Buildings owned | 7 | 9 | 11 | 5 | 5 | 21 | 58 |
| Buildings rented | 1 | *1 | †2 | ..... | 3 | 3 | 10 |
| Total | 8 | 10 | 13 | 5 | 8 | 24 | 68 |
| Rooms owned | 68 | 88 | 78 | 45 | 31 | 54 | 364 |
| Rooms rented | 3 | *6 | †6 | ..... | 5 | 4 | 24 |
| Total | 71 | 94 | 84 | 45 | 36 | 58 | 388 |

Total number of schools, 412.

Buildings and rooms owned in the first six divisions at the beginning of the school year ending June 30, 1889 (excluding the Washington High School).

| | First division. | Second division. | Third division. | Fourth division. | Fifth division. | Sixth division. | Total. |
|-----------------------|-----------------|------------------|-----------------|------------------|-----------------|-----------------|--------|
| Buildings owned | 6 | 9 | 11 | 5 | 5 | 21 | 57 |
| Rooms owned | 66 | 91 | 78 | 46 | 31 | 53 | 365 |

Total number of schools (estimated), 420.

STATISTICS.

TABLE I.—*Showing the whole enrollment of white pupils within the city, by grades, for the school year ending June 30, 1888.*

| Grade. | Boys. | Girls. | Whole enrollment. Total. | Per cent. |
|-------------------------------|-------|--------|--------------------------|-----------|
| Normal School | 3 | 37 | 40 | .19 |
| High School | 414 | 583 | 997 | 4.85 |
| Eighth grade | 631 | 882 | 1,513 | 7.37 |
| Seventh grade | 770 | 1,002 | 1,772 | 8.63 |
| Sixth grade | 947 | 1,262 | 2,209 | 10.76 |
| Fifth grade | 1,326 | 1,399 | 2,725 | 13.27 |
| Fourth grade | 1,488 | 1,459 | 2,947 | 14.35 |
| Third grade | 1,426 | 1,292 | 2,718 | 13.24 |
| Second grade | 1,313 | 1,155 | 2,468 | 12.02 |
| First grade | 1,598 | 1,548 | 3,146 | 15.32 |
| Total | 9,916 | 10,619 | 20,535 | 100.00 |
| SUMMARY. | | | | |
| Normal and High Schools | 417 | 620 | 1,037 | 5.04 |
| Grammar schools | 3,674 | 4,545 | 8,219 | 40.03 |
| Primary schools | 5,825 | 5,454 | 11,279 | 54.93 |
| Total | 9,916 | 10,619 | 20,535 | 100.00 |

* Occupied by manual training schools.

† One building occupied by manual training schools.

‡ Four rooms occupied by manual training schools.

TABLE II.—*Showing the whole enrollment of white pupils in the first six divisions (city and county), by grades, for the school year ending June 30, 1888.*

| Grade. | Boys. | Girls. | Whole enrollment.
Total. | Per cent. |
|-------------------------------|--------|--------|-----------------------------|-----------|
| Normal School | 3 | 37 | 40 | .18 |
| High School | 414 | 583 | 997 | 4.52 |
| Eighth grade | 646 | 894 | 1,540 | 6.89 |
| Seventh grade | 816 | 1,044 | 1,860 | 8.43 |
| Sixth grade | 1,027 | 1,332 | 2,359 | 10.70 |
| Fifth grade | 1,434 | 1,483 | 2,917 | 13.23 |
| Fourth grade | 1,590 | 1,557 | 3,147 | 14.27 |
| Third grade | 1,552 | 1,413 | 2,965 | 13.44 |
| Second grade | 1,458 | 1,285 | 2,743 | 12.44 |
| First grade | 1,773 | 1,713 | 3,486 | 15.81 |
| Total | 10,713 | 11,341 | 22,054 | 100.00 |
| SUMMARY. | | | | |
| Normal and High Schools | 417 | 620 | 1,037 | 4.70 |
| Grammar schools | 3,923 | 4,753 | 8,676 | 39.34 |
| Primary schools | 6,373 | 5,968 | 12,341 | 55.96 |
| Total | 10,713 | 11,341 | 22,054 | 100.00 |

TABLE III.—*Showing the whole enrollment of pupils (white and colored) in the first six divisions (city and county), by grades, for the school year ending June 30, 1888.*

| Grade. | Boys. | Girls. | Whole enrollment.
Total. | Per cent. |
|-------------------------------|--------|--------|-----------------------------|-----------|
| Normal School | 3 | 37 | 40 | .17 |
| High School | 414 | 583 | 997 | 4.19 |
| Eighth grade | 662 | 914 | 1,576 | 6.62 |
| Seventh grade | 833 | 1,067 | 1,900 | 8.00 |
| Sixth grade | 1,073 | 1,384 | 2,457 | 10.32 |
| Fifth grade | 1,495 | 1,546 | 3,041 | 12.77 |
| Fourth grade | 1,650 | 1,649 | 3,299 | 13.98 |
| Third grade | 1,693 | 1,557 | 3,250 | 13.65 |
| Second grade | 1,684 | 1,513 | 3,197 | 13.43 |
| First grade | 2,038 | 1,980 | 4,018 | 16.87 |
| Total | 11,580 | 12,230 | 23,810 | 100.00 |
| SUMMARY. | | | | |
| Normal and High Schools | 417 | 620 | 1,037 | 4.36 |
| Grammar schools | 4,068 | 4,911 | 8,979 | 37.71 |
| Primary schools | 7,095 | 6,699 | 13,794 | 57.93 |
| Total | 11,580 | 12,230 | 23,810 | 100.00 |

TABLE IV.—Showing attendance and other facts.

SEPTEMBER.

| | Whole number of pupils enrolled. | Average number of pupils enrolled. | Average number of pupils in daily attendance. | Percentage of attendance. | Schools. | Teachers employed (unassigned, 3). | Cases of tardiness. | Cases of corporal punishment. | Pupils dismissed. | Pupils to school based on— | |
|------------------------|----------------------------------|------------------------------------|---|---------------------------|----------|------------------------------------|---------------------|-------------------------------|-------------------|----------------------------|---------------------|
| | | | | | | | | | | Whole enrollment. | Average enrollment. |
| First division | 3,722 | 3,551 | 3,446 | 96.9 | 81† | 79* | 196 | ..... | ..... | 45.9 | 43.8 |
| Second division | 4,839 | 4,643 | 4,495 | 96.8 | 98† | 96* | 130 | 1 | ..... | 49.3 | 47.3 |
| Third division | 4,277 | 4,058 | 3,941 | 97.2 | 87 | 88* | 45 | ..... | ..... | 49.1 | 46.6 |
| Fourth division | 2,438 | 2,351 | 2,274 | 96.1 | 50 | 51* | 44 | ..... | ..... | 48.7 | 47.0 |
| Fifth division | 1,649 | 1,527 | 1,474 | 96.5 | 37 | 39* | 65 | ..... | ..... | 44.3 | 41.2 |
| Sixth division: | | | | | | | | | | | |
| White | 1,243 | 1,214 | 1,137 | 93.9 | 29 | 30 | 67 | ..... | ..... | 42.8 | 41.8 |
| Colored | 1,367 | 1,334 | 1,280 | 95.9 | 30 | 31* | 59 | 3 | ..... | 45.5 | 44.4 |
| High School | 949 | 942 | 931 | 98.8 | ..... | 29 | 23 | ..... | ..... | ..... | ..... |
| Normal School | 40 | 40 | 39 | 98.7 | ..... | 5 | ..... | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 11 | ..... | ..... | ..... | ..... | ..... |
| Total | 20,524 | 19,660 | 19,017 | ..... | 412 | 462 | 629 | 4 | ..... | ..... | ..... |

OCTOBER.

| | | | | | | | | | | | |
|------------------------|--------|--------|--------|-------|-------|-----|-------|-------|-------|-------|-------|
| First division | 4,057 | 3,896 | 3,713 | 95.3 | 81† | 79* | 561 | 4 | ..... | 50.8 | 48.0 |
| Second division | 5,018 | 4,882 | 4,660 | 94.1 | 97† | 95* | 460 | 8 | ..... | 51.8 | 50.3 |
| Third division | 4,409 | 4,265 | 4,093 | 94.8 | 88 | 89* | 170 | ..... | ..... | 50.1 | 48.4 |
| Fourth division | 2,575 | 2,475 | 2,354 | 93.1 | 50 | 51* | 265 | 1 | ..... | 51.5 | 49.5 |
| Fifth division | 1,686 | 1,607 | 1,511 | 93.9 | 37 | 39* | 228 | ..... | 2 | 45.5 | 43.4 |
| Sixth division: | | | | | | | | | | | |
| White | 1,323 | 1,278 | 1,174 | 91.8 | 29 | 30 | 297 | ..... | ..... | 45.6 | 44.0 |
| Colored | 1,527 | 1,471 | 1,390 | 93.8 | 30 | 31* | 152 | 3 | ..... | 50.9 | 49.0 |
| High School | 977 | 971 | 950 | 97.9 | ..... | 30 | 45 | ..... | ..... | ..... | ..... |
| Normal School | 40 | 40 | 38 | 98.1 | ..... | 5 | ..... | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 12 | ..... | ..... | ..... | ..... | ..... |
| Total | 21,622 | 20,885 | 19,883 | ..... | 412 | 461 | 2,178 | 16 | 2 | ..... | ..... |

NOVEMBER.

| | | | | | | | | | | | |
|------------------------|--------|--------|--------|-------|-------|-----|-------|-------|-------|-------|-------|
| First division | 4,056 | 4,027 | 3,850 | 90.2 | 81† | 79* | 805 | ..... | ..... | 50.7 | 49.7 |
| Second division | 5,143 | 4,944 | 4,662 | 94.5 | 98† | 96* | 517 | 4 | 1 | 52.4 | 50.4 |
| Third division | 4,353 | 4,303 | 4,102 | 94.2 | 88 | 89* | 230 | ..... | ..... | 49.4 | 48.8 |
| Fourth division | 2,537 | 2,465 | 2,316 | 93.9 | 50 | 51* | 386 | ..... | ..... | 50.7 | 49.3 |
| Fifth division | 1,633 | 1,605 | 1,510 | 94.0 | 37 | 39* | 339 | ..... | ..... | 44.1 | 43.3 |
| Sixth division: | | | | | | | | | | | |
| White | 1,314 | 1,253 | 1,132 | 90.3 | 29 | 30 | 325 | 1 | 1 | 45.3 | 43.2 |
| Colored | 1,526 | 1,457 | 1,345 | 92.2 | 30 | 31* | 204 | 2 | ..... | 50.8 | 48.5 |
| High School | 978 | 956 | 932 | 96.4 | ..... | 30 | 95 | ..... | ..... | ..... | ..... |
| Normal School | 40 | 39 | 39 | 99.1 | ..... | 5 | ..... | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 12 | ..... | ..... | ..... | ..... | ..... |
| Total | 21,580 | 21,049 | 19,888 | ..... | 413 | 462 | 2,901 | 7 | 2 | ..... | ..... |

* Including one supervising principal.

† Including three practice schools.

TABLE IV.—*Showing attendance and other facts*—Continued.

DECEMBER.

| | Whole number of pupils enrolled. | Average number of pupils enrolled. | Average number of pupils in daily attendance. | Percentage of attendance. | Schools. | Teachers employed. | Cases of tardiness. | Cases of corporal punishment. | Pupils dismissed | Pupils to a school based on— | |
|------------------------|----------------------------------|------------------------------------|---|---------------------------|----------|--------------------|---------------------|-------------------------------|------------------|------------------------------|---------------------|
| | | | | | | | | | | Whole enrollment. | Average enrollment. |
| First division | 3,990 | 3,783 | 3,457 | 91.3 | 81† | 79* | 644 | 1 | ..... | 49.2 | 46.7 |
| Second division ... | 4,996 | 4,848 | 4,525 | 93.2 | 97† | 95* | 530 | 6 | 1 | 51.5 | 49.9 |
| Third division | 4,364 | 4,229 | 3,930 | 93.9 | 83 | 89* | 152 | 1 | 1 | 49.5 | 48.0 |
| Fourth division ... | 2,503 | 2,415 | 2,224 | 92.1 | 50 | 51* | 370 | ..... | ..... | 50.0 | 48.3 |
| Fifth division | 1,635 | 1,585 | 1,468 | 92.6 | 37 | 39* | 238 | 7 | ..... | 44.1 | 42.8 |
| Sixth division: | | | | | | | | | | | |
| White | 1,288 | 1,220 | 1,060 | 86.8 | 29 | 30 | 284 | 2 | 1 | 44.4 | 42.0 |
| Colored | 1,470 | 1,415 | 1,279 | 90.4 | 30 | 31* | 140 | 3 | 3 | 49.0 | 47.1 |
| High School | 973 | 944 | 904 | 94.9 | ..... | 30 | 78 | ..... | ..... | ..... | ..... |
| Normal School | 40 | 40 | 39 | 98.2 | ..... | 5 | 1 | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 12 | ..... | ..... | ..... | ..... | ..... |
| Total | 21,259 | 20,479 | 18,886 | ..... | 412 | 461 | 2,437 | 20 | 6 | ..... | ..... |

JANUARY.

| | | | | | | | | | | | |
|------------------------|--------|--------|--------|-------|-------|-----|-------|-------|-------|-------|-------|
| First division | 3,760 | 3,700 | 3,343 | 89.9 | 81† | 79* | 1,027 | ..... | ..... | 46.4 | 43.6 |
| Second division ... | 4,863 | 4,792 | 4,362 | 91.0 | 97† | 95* | 693 | 8 | 3 | 50.1 | 48.4 |
| Third division | 4,234 | 4,064 | 3,778 | 91.6 | 88 | 89* | 261 | ..... | ..... | 48.1 | 46.1 |
| Fourth division | 2,386 | 2,372 | 2,149 | 90.6 | 50 | 51* | 528 | ..... | ..... | 47.7 | 47.4 |
| Fifth division | 1,559 | 1,553 | 1,409 | 90.1 | 37 | 39* | 338 | 3 | 1 | 42.0 | 41.9 |
| Sixth division: | | | | | | | | | | | |
| White | 1,217 | 1,215 | 1,038 | 85.5 | 29 | 30 | 440 | ..... | ..... | 42.0 | 42.0 |
| Colored | 1,449 | 1,426 | 1,282 | 89.9 | 30 | 31* | 187 | 6 | 1 | 48.3 | 47.5 |
| High School | 956 | 930 | 880 | 93.0 | ..... | 30 | 87 | ..... | ..... | ..... | ..... |
| Normal School | 40 | 40 | 38 | 95.9 | ..... | 5 | ..... | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 12 | ..... | ..... | ..... | ..... | ..... |
| Total | 20,464 | 20,092 | 18,279 | ..... | 412 | 461 | 3,561 | 17 | 5 | ..... | ..... |

FEBRUARY.

| | | | | | | | | | | | |
|------------------------|--------|--------|--------|-------|-------|-----|-------|-------|-------|-------|-------|
| First division | 3,796 | 3,592 | 3,225 | 90.1 | 81† | 79* | 781 | ..... | ..... | 46.8 | 44.3 |
| Second division ... | 4,717 | 4,624 | 4,229 | 91.7 | 97† | 95* | 552 | 3 | 1 | 48.6 | 47.6 |
| Third division | 4,115 | 3,944 | 3,664 | 92.8 | 88 | 89* | 198 | ..... | ..... | 46.7 | 44.8 |
| Fourth division ... | 2,393 | 2,337 | 2,139 | 91.5 | 50 | 51* | 530 | ..... | ..... | 47.8 | 46.7 |
| Fifth division | 1,525 | 1,482 | 1,345 | 90.7 | 37 | 35* | 292 | 1 | ..... | 41.2 | 40.0 |
| Sixth division: | | | | | | | | | | | |
| White | 1,126 | 1,073 | 906 | 84.4 | 29 | 30 | 327 | ..... | 1 | 38.8 | 37.0 |
| Colored | 1,398 | 1,358 | 1,222 | 90.0 | 30 | 31* | 160 | 5 | ..... | 46.6 | 45.2 |
| High School | 944 | 892 | 858 | 95.0 | ..... | 30 | 63 | ..... | 1 | ..... | ..... |
| Normal School | 40 | 40 | 39 | 96.7 | ..... | 5 | 2 | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 14 | ..... | ..... | ..... | ..... | ..... |
| Total | 20,054 | 19,342 | 17,627 | ..... | 412 | 463 | 2,905 | 9 | 3 | ..... | ..... |

* Including one supervising principal.

† Including three practice schools.

TABLE IV.—*Showing attendance and other facts—Continued.*

MARCH.

| | Whole number of pupils enrolled. | Average number of pupils enrolled. | Average number of pupils in daily attendance. | Percentage of attendance. | Schools. | Teachers employed. | Cases of tardiness. | Cases of corporal punishment. | Pupils dismissed. | Pupils to school based on— | |
|------------------------|----------------------------------|------------------------------------|---|---------------------------|----------|--------------------|---------------------|-------------------------------|-------------------|----------------------------|---------------------|
| | | | | | | | | | | Whole enrollment. | Average enrollment. |
| First division | 3,574 | 3,473 | 3,097 | 89 | 81† | 79* | 686 | 1 | 1 | 44.1 | 42.8 |
| Second division | 4,630 | 4,525 | 4,059 | 89.7 | 97† | 95* | 533 | 8 | 2 | 47.7 | 46.6 |
| Third division | 4,031 | 3,901 | 3,531 | 90.4 | 88 | 89* | 196 | ..... | ..... | 45.8 | 44.3 |
| Fourth division | 2,340 | 2,309 | 2,083 | 90.2 | 50 | 51* | 369 | ..... | ..... | 46.8 | 46.1 |
| Fifth division | 1,493 | 1,430 | 1,274 | 89.1 | 37 | 39* | 232 | 1 | ..... | 40.3 | 38.6 |
| Sixth division: | | | | | | | | | | | |
| White | 1,084 | 1,055 | 854 | 80.9 | 29 | 30 | 198 | 3 | ..... | 37.3 | 36.3 |
| Colored | 1,372 | 1,324 | 1,143 | 86.4 | 30 | 31* | 147 | 2 | ..... | 45.7 | 44.1 |
| High School | 914 | 889 | 842 | 94.7 | ..... | 30 | 94 | ..... | ..... | ..... | ..... |
| Normal School | 40 | 40 | 39 | 97.5 | ..... | 5 | ..... | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 14 | ..... | ..... | ..... | ..... | ..... |
| Total | 19,478 | 18,946 | 16,922 | ..... | 412 | 463 | 2,455 | 15 | 3 | ..... | ..... |

APRIL.

| | | | | | | | | | | | |
|------------------------|--------|--------|--------|-------|-------|-----|-------|-------|-------|-------|-------|
| First division | 3,520 | 3,421 | 3,357 | 92.2 | 81† | 79* | 622 | 4 | 1 | 43.4 | 42.2 |
| Second division | 4,542 | 4,428 | 4,290 | 92.8 | 97† | 95* | 532 | 1 | 1 | 46.8 | 45.6 |
| Third division | 3,974 | 3,843 | 3,773 | 92.6 | 88 | 89* | 156 | ..... | 3 | 45.1 | 43.6 |
| Fourth division | 2,316 | 2,303 | 2,127 | 92.1 | 50 | 51* | 238 | ..... | ..... | 46.3 | 46 |
| Fifth division | 1,456 | 1,393 | 1,407 | 92.2 | 37 | 39* | 259 | 2 | 1 | 39.3 | 37.6 |
| Sixth division: | | | | | | | | | | | |
| White | 1,108 | 1,067 | 1,031 | 87.8 | 29 | 30 | 158 | 1 | 2 | 38.2 | 36.7 |
| Colored | 1,326 | 1,320 | 1,206 | 90.4 | 30 | 31* | 94 | 3 | ..... | 44.2 | 44 |
| High School | 907 | 880 | 857 | 96.3 | ..... | 30 | 68 | ..... | ..... | ..... | ..... |
| Normal School | 40 | 40 | 39 | 96.9 | ..... | 5 | 1 | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 14 | ..... | ..... | ..... | ..... | ..... |
| Total | 19,189 | 18,705 | 18,087 | ..... | 412 | 463 | 2,128 | 11 | 8 | ..... | ..... |

MAY.

| | | | | | | | | | | | |
|------------------------|--------|--------|--------|-------|-------|-----|-------|-------|-------|-------|-------|
| First division | 3,679 | 3,584 | 3,281 | 89.6 | 81† | 79* | 663 | ..... | ..... | 45.4 | 44.2 |
| Second division | 4,613 | 4,847 | 4,127 | 92.9 | 97† | 95* | 527 | 11 | 3 | 47.5 | 46.2 |
| Third division | 4,077 | 3,949 | 3,663 | 92.6 | 88 | 89* | 189 | 3 | 1 | 46.3 | 44.8 |
| Fourth division | 2,309 | 2,254 | 2,074 | 92.1 | 50 | 51* | 216 | ..... | ..... | 46.1 | 45 |
| Fifth division | 1,537 | 1,480 | 1,357 | 91.7 | 37 | 39* | 270 | 2 | 3 | 41.5 | 40 |
| Sixth division: | | | | | | | | | | | |
| White | 1,204 | 1,157 | 988 | 85.3 | 29 | 30 | 213 | 1 | ..... | 41.5 | 39.9 |
| Colored | 1,305 | 1,272 | 1,149 | 90.3 | 30 | 31* | 121 | 2 | ..... | 43.5 | 42.4 |
| High School | 893 | 864 | 823 | 95.2 | ..... | 30 | 104 | ..... | ..... | ..... | ..... |
| Normal School | 40 | 40 | 37 | 97.6 | ..... | 5 | 1 | ..... | ..... | ..... | ..... |
| Special teachers ..... | ..... | ..... | ..... | ..... | ..... | 14 | ..... | ..... | ..... | ..... | ..... |
| Total | 19,657 | 19,087 | 17,499 | ..... | 412 | 463 | 2,304 | 19 | 7 | ..... | ..... |

* Including one supervising principal.

† Including three practice schools.

TABLE IV.—Showing attendance and other facts—Continued.

JUNE.

| | Whole number of pupils enrolled. | Average number of pupils enrolled. | Average number of pupils in daily attendance. | Percentage of attendance. | Schools. | Teachers employed. | Cases of tardiness. | Cases of corporal punishment. | Pupils dismissed. | Pupils to school based on— | |
|------------------|----------------------------------|------------------------------------|---|---------------------------|----------|--------------------|---------------------|-------------------------------|-------------------|----------------------------|---------------------|
| | | | | | | | | | | Whole enrollment. | Average enrollment. |
| First division | 2,490 | 2,369 | 2,145 | 93.6 | 81 | 79 | 321 | 1 | 1 | 43 | 41.4 |
| Second division | 4,438 | 4,392 | 4,135 | 94.2 | 97 | 95 | 245 | 5 | 1 | 45.7 | 45.2 |
| Third division | 3,614 | 3,595 | 3,626 | 94.5 | 85 | 83 | 76 | | | 43.3 | 43.2 |
| Fourth division | 2,221 | 2,193 | 2,051 | 93.3 | 25 | 51 | 106 | | | 44.4 | 43.9 |
| Fifth division | 1,464 | 1,422 | 1,325 | 93.2 | 37 | 35 | 127 | | | 39.5 | 38.4 |
| Sixth division | | | | | | | | | | | |
| White | 1,158 | 1,134 | 1,010 | 89.3 | 29 | 30 | 114 | | | 39.9 | 39 |
| Colored | 1,236 | 1,229 | 1,125 | 91.9 | 36 | 31 | 59 | | | 41.8 | 41.6 |
| High School | 871 | 830 | 766 | 91.3 | | 30 | 66 | | | | |
| Normal School | 40 | 40 | 35 | 87.5 | | 5 | 1 | | | | |
| Special teachers | | | | | | 14 | | | | | |
| Total | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 | 2 | | |

TABLE V.—Attendance and other facts, by months, for the year.

| | Whole number of pupils enrolled. | Average number of pupils enrolled. | Average number of pupils in daily attendance. | Percentage of attendance. | Teachers employed. | Cases of tardiness. | Cases of corporal punishment. | Pupils dismissed. |
|-----------|----------------------------------|------------------------------------|---|---------------------------|--------------------|---------------------|-------------------------------|-------------------|
| September | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| October | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| November | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| December | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| January | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| February | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| March | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| April | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| May | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| June | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |
| Total | 15,132 | 15,441 | 17,169 | | 412 | 463 | 1,115 | 6 |

TABLE VI.—Attendance and other facts, by divisions.

| | Whole number of pupils enrolled. | Average number of pupils enrolled. | Average number of pupils in daily attendance. | Cases of tardiness. | Cases of corporal punishment. | Pupils dismissed. | Schools. | Teachers employed. | Whole enrollment. | Average enrollment. |
|------------------|----------------------------------|------------------------------------|---|---------------------|-------------------------------|-------------------|----------|--------------------|-------------------|---------------------|
| First division | 2,490 | 2,369 | 2,145 | 321 | 1 | 1 | 81 | 79 | 43 | 41.4 |
| Second division | 4,438 | 4,392 | 4,135 | 245 | 5 | 1 | 97 | 95 | 45.7 | 45.2 |
| Third division | 3,614 | 3,595 | 3,626 | 76 | | | 85 | 83 | 43.3 | 43.2 |
| Fourth division | 2,221 | 2,193 | 2,051 | 106 | | | 25 | 51 | 44.4 | 43.9 |
| Fifth division | 1,464 | 1,422 | 1,325 | 127 | | | 37 | 35 | 39.5 | 38.4 |
| Sixth division | | | | | | | | | | |
| White | 1,158 | 1,134 | 1,010 | 114 | | | 29 | 30 | 39.9 | 39 |
| Colored | 1,236 | 1,229 | 1,125 | 59 | | | 36 | 31 | 41.8 | 41.6 |
| High School | 871 | 830 | 766 | 66 | | | | 30 | | |
| Normal School | 40 | 40 | 35 | 1 | | | | 5 | | |
| Special teachers | | | | | | | | 14 | | |
| Total | 15,132 | 15,441 | 17,169 | 1,115 | 6 | 2 | 412 | 463 | | |

* In making the average enrollment, the number of pupils in attendance is divided by the number of days in the month.

TABLE VII.—*Fluctuations in the growth of the schools since the year 1880.*

[First six divisions.]

| School year ending
June 30— | Whole enrollment. | | Average enrollment. | | Average daily attendance. | | Number of
teachers. | Increase. |
|--------------------------------|-------------------|---------------------------|---------------------|---------------------------|---------------------------|---------------------------|------------------------|-----------|
| | Number. | Per cent. of
increase. | Number. | Per cent. of
increase. | Number. | Per cent. of
increase. | | |
| 1880..... | 18,378 | ..... | 15,027 | ..... | 14,225 | ..... | 306 | ..... |
| 1881..... | 19,153 | 4.2 | 15,494 | 3.1 | 14,388 | 1.1 | 327 | 21 |
| 1882..... | 19,631 | *.63 | 16,063 | 3.6 | 14,933 | 4.1 | 342 | 15 |
| 1883..... | 19,836 | 4.2 | 16,524 | 2.8 | 15,451 | 3.4 | 358 | 16 |
| 1884..... | 21,221 | 6.9 | 16,642 | .71 | 15,423 | *.18 | 371 | 13 |
| 1885..... | 21,267 | .21 | 17,468 | 4.9 | 16,041 | 4 | 393 | 22 |
| 1886..... | 22,198 | 4.3 | 18,720 | 7.1 | 17,273 | 7.6 | 421 | 28 |
| 1887..... | 23,073 | 3.9 | 19,285 | 3 | 17,910 | 3.6 | 438 | 17 |
| 1888..... | 23,810 | 3.1 | 19,762 | 2.4 | 18,210 | 1.7 | 463 | 25 |

* Decrease.

WASHINGTON HIGH SCHOOL.

TABLE VIII.—*Whole number of pupils enrolled, increase and percentage of increase for each year since the organization of the advanced grammar schools.*

| Year. | Boys. | | | Girls. | | | Total. | | |
|---------------|----------------------------|----------------|--------------------------------------|----------------------------|----------------|--------------------------------------|----------------------------|----------------|--------------------------------------|
| | Num-
ber en-
rolled. | In-
crease. | Per-
centage
of in-
crease. | Num-
ber en-
rolled. | In-
crease. | Per-
centage
of in-
crease. | Num-
ber en-
rolled. | In-
crease. | Per-
centage
of in-
crease. |
| 1876-'77..... | ..... | ..... | ..... | 54 | ..... | ..... | 54 | ..... | ..... |
| 1877-'78..... | 54 | ..... | ..... | 76 | 22 | 40.7 | 130 | 76 | 147.4 |
| 1878-'79..... | 67 | 13 | 24.0 | 84 | 8 | 10.5 | 151 | 21 | 16.1 |
| 1879-'80..... | 81 | 14 | 20.9 | 98 | 14 | 16.6 | 179 | 28 | 18.5 |
| 1880-'81..... | 104 | 23 | 28.4 | 130 | 32 | 32.7 | 234 | 55 | 30.7 |
| 1881-'82..... | 121 | 17 | 16.3 | 147 | 17 | 13.0 | 268 | 34 | 14.5 |
| 1882-'83..... | 171 | 50 | 41.3 | 241 | 94 | 63.9 | 412 | 144 | 53.7 |
| 1883-'84..... | 209 | 38 | 22.2 | 315 | 74 | 30.9 | 524 | 112 | 27.1 |
| 1884-'85..... | 223 | 14 | 6.2 | 433 | 128 | 31.8 | 656 | 132 | 20.1 |
| 1885-'86..... | 262 | 39 | 15.2 | 483 | 50 | 10.3 | 745 | 89 | 11.9 |
| 1886-'87..... | 301 | 39 | 11.0 | 526 | 43 | 8.9 | 827 | 82 | 11.0 |
| 1887-'88..... | 414 | 113 | 37.5 | 583 | 57 | 10.8 | 997 | 170 | 20.5 |

GENERAL STATISTICS OF SCHOOLS FOR THE DISTRICT OF COLUMBIA
FOR THE YEAR ENDING JUNE 30, 1888.

In the following tables the facts presented by Superintendent Cook and myself are summarized to give a general view of the several kinds of schools, showing attendance, number of teachers, cost and other items of interest:

Washington Normal School.

| | |
|----------------------------------|----------|
| Number of teachers trained..... | 40 |
| Average attendance..... | 39 |
| Number of teachers employed..... | 5 |
| Average salary..... | \$960.00 |

Miner Normal School.

| | |
|----------------------------------|----------|
| Number of teachers trained..... | 40 |
| Average attendance..... | 36 |
| Number of teachers employed..... | 3 |
| Average salary..... | \$955.00 |

Washington High School.

| | |
|--|----------|
| Number of pupils enrolled..... | 997 |
| Average enrollment..... | 913 |
| Average attendance..... | 878 |
| Per cent. of attendance..... | 95.8 |
| Average number of tardinesses per month..... | 72 |
| Number of pupils dismissed..... | 1 |
| Number of teachers employed..... | 30 |
| Average salary paid..... | \$846.64 |
| Cost of tuition per pupil (estimated on the average enrollment)..... | \$27.81 |

Colored High School.

| | |
|--|------------|
| Number of pupils enrolled..... | 361 |
| Average enrollment..... | 287 |
| Average attendance..... | 267 |
| Per cent. of attendance..... | 92.8 |
| Average number of tardinesses per month..... | 5.5 |
| Number of pupils dismissed..... | 0 |
| Number of teachers employed..... | 9 |
| Average salary paid..... | \$1,074.44 |
| Cost of tuition per pupil (estimated on the average enrollment)..... | \$33.69 |

Grammar and Primary Schools.

| | White. | Colored. | Total. |
|--|----------|----------|--------|
| Number of pupils enrolled..... | 21,017 | 12,395 | 33,412 |
| Average enrollment..... | 17,428 | 9,848 | 27,276 |
| Average attendance..... | 16,057 | 9,235 | 25,292 |
| Per cent. of attendance..... | 92.1 | 93.7 | 92.7 |
| Average number of tardinesses per month..... | 2,056 | 469 | 2,525 |
| Number of pupils dismissed..... | 33 | 14 | 47 |
| Number of cases of corporal punishment..... | 95 | 107 | 202 |
| Number of teachers employed..... | 377 | 201 | 578 |
| Average salary paid..... | \$651.26 | \$588.31 | ..... |
| Average number of pupils to a teacher (estimated on average enrollment)..... | 46.2 | 49 | ..... |
| Cost of tuition per pupil (estimated on average enrollment)..... | \$14.08 | \$12.00 | ..... |
| Number of pupils enrolled in all schools..... | 22,054 | 12,796 | 34,850 |

SPECIAL TEACHERS.

| | | | |
|---|------------|------------|-------|
| Drawing..... | 3 | 1 | 4 |
| Music..... | 2 | 2 | 4 |
| Average salary paid: | | | |
| Drawing..... | \$666.67 | \$1,100.00 | ..... |
| Music..... | \$1,400.00 | \$800.00 | ..... |
| Average cost per pupil for special tuition (estimated on average enrollment)..... | *\$0.24 | †\$0.31 | ..... |

*First six divisions.

†Seventh and eighth divisions.

SUPERVISION.

The cost of supervision was:

| | |
|--|------------|
| One superintendent (white)..... | \$2,700.00 |
| One superintendent (colored)..... | 2,250.00 |
| Six supervising principals (white), each \$2,000..... | 12,000.00 |
| Two supervising principals (colored), each \$2,000..... | 4,000.00 |
| One clerk..... | 1,200.00 |
| One clerk (colored)..... | 800.00 |
| One messenger..... | 300.00 |
| One messenger (colored)..... | 200.00 |
| Total cost of supervision..... | 23,450.00 |
| Average cost of supervision per pupil (estimated on average enrollment) .. | 0.82 |

Summary.

| | |
|--|----------------|
| Total cost of instruction, including supervision | \$445, 136. 45 |
| Whole number of pupils enrolled | 34, 850 |
| Average enrollment | 28, 553 |
| Average daily attendance | 26, 512 |
| Average cost of instruction, estimated on— | |
| 1. Whole enrollment | 12. 77 |
| 2. Average enrollment | 15. 58 |
| 3. Average daily attendance | 16. 79 |

Contingent expenses.

| | |
|--|---------------|
| Total amount expended | \$21, 066. 36 |
| Average amount per pupil (estimated on average enrollment) | . 73 |

Fuel.

| | |
|-----------------------------|---------------|
| Total amount expended | \$19, 903. 73 |
|-----------------------------|---------------|

Janitors.

| | |
|---|---------------|
| Total amount expended | \$33, 307. 12 |
| Average cost per pupil (including High and Normal Schools) for all ex-
penses except repairs and permanent improvements: | |
| 1. On whole enrollment | 15. 36 |
| 2. On average enrollment | 18. 74 |
| 3. On average daily attendance | 20. 19 |

Accommodations.

| | White. | Colored. | Total. |
|-------------------------------------|--------|----------|--------|
| Number of buildings owned | *48 | 23 | 71 |
| Number of buildings rented | 9 | 10 | 19 |
| Number of school rooms owned | *338 | 155 | 493 |
| Number of school-rooms rented | 23 | 29 | 52 |

* Excluding white High School.

List of school-houses owned, with their respective locations, and with the number of rooms in each.

| Division. | Name of building. | Location of building. | Number of rooms. |
|-----------|-------------------|--|------------------|
| 1 | Franklin | Thirteenth and K streets, northwest | 16 |
| 1 | Dennison | S street, between Thirteenth and Fourteenth streets, northwest .. | 12 |
| 1 | Force | Massachusetts avenue, between Seventeenth and Eighteenth streets, northwest. | 12 |
| 1 | Analostan | G street, between Twenty-first and Twenty-second streets, north-west. | 12 |
| 1 | Weightman | Twenty-third and M streets, northwest | 8 |
| 1 | Thomson | Twelfth street, between K and L streets, northwest | 6 |
| 1 | ..... | Fourteenth and Q streets, northwest | 3 |
| 2 | Gales | First and G streets, northwest | 12 |
| 2 | Henry | P street, between Sixth and Seventh streets, northwest | 12 |
| 2 | Webster | Tenth and H streets, northwest | 12 |
| 2 | Seaton | I street, between Second and Third streets, northwest | 11 |
| 2 | Twining | Third street, between N and O streets, northwest | 10 |
| 2 | Abbot | Sixth street and New York avenue, northwest | 9 |
| 2 | Morse | Fifth and R streets, northwest | 8 |
| 2 | Phelps | Vermont avenue, between T and U streets, northwest | 8 |
| 2 | Blake | North Capitol street, between K and L streets, northwest | 8 |
| 3 | Wallach | Pennsylvania avenue, between Seventh and Eighth streets, south-east. | 12 |
| | Peabody | Fifth and C streets, northeast | 12 |
| | Brent | Third and D streets, southeast | 8 |

List of school-houses owned, with their respective locations, etc.—Continued.

| Division. | Name of building. | Location of building. | Number of rooms. |
|-----------|--------------------------|--|------------------|
| 3 | Blair..... | I street, between Sixth and Seventh streets, northeast..... | 8 |
| 3 | Maury..... | B street, between Thirteenth and Fourteenth streets, northeast..... | 8 |
| 3 | Towers..... | Eighth and C streets, southeast..... | 8 |
| 3 | Carberry..... | Fifth street, between D and E streets, northeast..... | 8 |
| 3 | Cranch..... | Twelfth and G streets, southeast..... | 6 |
| 3 | McCormick..... | Third street, between M and N streets, southeast..... | 4 |
| 3 | ..... | Seventh and G streets, southeast..... | 2 |
| 3 | Lenox..... | Ninth street, between K street and Virginia avenue, southeast..... | 2 |
| 4 | Jefferson..... | Sixth and D streets, southwest..... | 20 |
| 4 | Anderson..... | Sixth and F streets, southwest..... | 8 |
| 4 | Bradley..... | Thirteen and a half street, between C and D streets, southwest..... | 8 |
| 4 | Potomac..... | Twelfth street, between Maryland avenue and E street, southwest..... | 4 |
| 4 | Greenleaf..... | Four and a half street, between M and N streets, southwest..... | 4 |
| 5 | Addison..... | P street, between Thirty-second and Thirty-third streets, north-
west..... | 10 |
| 5 | Curtis..... | O street, between Thirty-second and Thirty-third streets, north-
west..... | 8 |
| 5 | | Twenty-eighth street, between M street and Olive avenue, north-
west..... | 4 |
| 5 | ..... | Thirty-second and S streets, northwest..... | 4 |
| 5 | Threlkeld..... | Thirty-sixth street and Prospect avenue, northwest..... | 4 |
| 6 | Mott..... | Sixth street extended and Trumbull street..... | 6 |
| 6 | Anacostia..... | Washington street, between Fillmore and Pierce streets, Ana-
costia, D. C..... | 6 |
| 6 | Hillsdale..... | Nelsons avenue, Hillsdale, D. C..... | 6 |
| 6 | Mount Pleasant..... | County..... | 4 |
| 6 | Ironhill town..... | do..... | 2 |
| 6 | Grant Road..... | do..... | 2 |
| 6 | Brightwood..... | do..... | 2 |
| 6 | Somers Home..... | do..... | 2 |
| 6 | Hankin..... | do..... | 2 |
| 6 | Bennett..... | do..... | 2 |
| 6 | Bennetts Road..... | do..... | 2 |
| 6 | Giesboro..... | do..... | 2 |
| 6 | Hamilton Road..... | do..... | 4 |
| 6 | Candler Road..... | do..... | 1 |
| 6 | Chain Bridge Road..... | do..... | 1 |
| 6 | Brightwood..... | do..... | 1 |
| 6 | Columbia Road..... | do..... | 2 |
| 6 | Fort Sumner..... | do..... | 1 |
| 6 | Basket Hill Road..... | do..... | 1 |
| 6 | Queen's Chapel Road..... | do..... | 1 |
| 6 | Anacostia road..... | do..... | 1 |
| 7 | Stevens..... | Twenty-first street, between K and L streets, northwest..... | 19 |
| 7 | Gardner..... | Tenth and C streets, northwest..... | 12 |
| 7 | Sumner..... | Seventeenth and M streets, northwest..... | 10 |
| 7 | Wormley..... | Prospect avenue, between Thirty-third and Thirty-fourth streets,
northwest..... | 8 |
| 7 | Magruder..... | M street, between Sixteenth and Seventeenth streets, northwest..... | 8 |
| 7 | Chamberlain..... | East street, Georgetown..... | *8 |
| 8 | Lincoln..... | Ninth and C streets, southeast..... | 11 |
| 8 | Randall..... | First and I streets, southwest..... | 12 |
| 8 | John F. Cook..... | O street, between Fourth and Fifth streets, northwest..... | 11 |
| 8 | Banneker..... | Third street, between K and L streets, northwest..... | 8 |
| 8 | Anthony Bowen..... | Ninth and E streets, southwest..... | 8 |
| 8 | Giddings..... | G street, between Third and Fourth streets, southeast..... | 8 |
| 8 | Lovejoy..... | Twelfth and D streets, northeast..... | 6 |

*Only two of these rooms were occupied.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 557

TABLE IX.—Whole enrollment of colored pupils in the District of Columbia, by grades, for the school year ending June 30, 1888.

| Grade. | Whole enrollment. | Per cent. |
|------------------------------|-------------------|-----------|
| Normal School..... | 40 | .31 |
| High School..... | 361 | 2.82 |
| Eighth grade..... | 261 | 2.04 |
| Seventh grade..... | 353 | 2.76 |
| Sixth grade..... | 538 | 4.36 |
| Fifth grade..... | 978 | 7.64 |
| Fourth grade..... | 1,195 | 9.34 |
| Third grade..... | 1,766 | 13.80 |
| Second grade..... | 2,524 | 19.73 |
| First grade..... | 4,760 | 37.20 |
| Total..... | 12,796 | 100.00 |
| SUMMARY. | | |
| Normal and High Schools..... | 401 | 3.13 |
| Grammar schools..... | 2,150 | 16.80 |
| Primary schools..... | 10,245 | 80.07 |
| Total..... | 12,796 | 100.00 |

TABLE X.—Whole enrollment of pupils, white and colored, in the District of Columbia, by grades, for the school year ending June 30, 1888.

| Grade. | Whole enrollment. | Per cent. |
|------------------------------|-------------------|-----------|
| Normal School..... | 80 | .23 |
| High School..... | 1,358 | 2.90 |
| Eighth grade..... | 1,801 | 5.17 |
| Seventh grade..... | 2,213 | 6.35 |
| Sixth grade..... | 2,917 | 8.37 |
| Fifth grade..... | 3,895 | 11.18 |
| Fourth grade..... | 4,342 | 12.46 |
| Third grade..... | 4,731 | 13.57 |
| Second grade..... | 5,267 | 15.11 |
| First grade..... | 8,246 | 23.66 |
| Total..... | 34,850 | 100.00 |
| SUMMARY. | | |
| Normal and High Schools..... | 1,438 | 4.13 |
| Grammar schools..... | 10,826 | 31.07 |
| Primary schools..... | 22,586 | 64.80 |
| Total..... | 34,850 | 100.00 |

TABLE XI.—Growth of the schools since the year 1880.

| School year ending June 30— | Average number of pupils enrolled. | | | | | |
|-----------------------------|------------------------------------|------------------------|-------------------------------|------------------------|---------|------------------------|
| | First six divisions. | | Seventh and eighth divisions. | | Total. | |
| | Number. | Per cent. of increase. | Number. | Per cent. of increase. | Number. | Per cent. of increase. |
| 1880..... | 15,027 | ..... | 6,573 | ..... | 21,600 | ..... |
| 1881..... | 15,494 | 3.1 | 6,567 | ..... | 22,061 | 2.13 |
| 1882..... | 16,063 | 3.6 | 6,763 | 2.98 | 22,826 | 3.46 |
| 1883..... | 16,524 | 2.8 | 7,070 | 4.53 | 23,594 | 3.36 |
| 1884..... | 16,642 | .71 | 7,225 | 2.19 | 23,867 | 1.11 |
| 1885..... | 17,468 | 4.9 | 7,689 | 6.42 | 25,157 | 5.40 |
| 1886..... | 18,720 | 7.1 | 8,191 | 6.52 | 26,911 | 6.97 |
| 1887..... | 19,285 | 3.0 | 8,448 | 3.13 | 27,733 | 3.05 |
| 1888..... | 19,762 | 2.4 | 8,791 | 4.06 | 28,553 | 2.95 |

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TABLE XII.—Average enrollment of pupils in the white and colored schools and the number of teachers employed for each year since the year 1880.

| School year ending June 30— | Average enrollment. | | | | | | Teachers. | |
|-----------------------------|----------------------|------------------------|-------------------------------|------------------------|--------|------------------------|------------------------|-----------|
| | First six divisions. | | Seventh and eighth divisions. | | Total. | | Whole number employed. | Increase. |
| | No. | Per cent. of increase. | No. | Per cent. of increase. | No. | Per cent. of increase. | | |
| 1880 | 15,927 | | 6,573 | | 21,600 | | 434 | |
| 1881 | 15,494 | 3.1 | 6,567 | | 22,061 | 2.13 | 461 | 27 |
| 1882 | 16,083 | 3.6 | 6,763 | 2.98 | 22,826 | 3.46 | 485 | 24 |
| 1883 | 16,524 | 2.8 | 7,070 | 4.53 | 23,594 | 3.36 | 505 | 20 |
| 1884 | 16,642 | .71 | 7,225 | 2.19 | 23,867 | 1.11 | 525 | 20 |
| 1885 | 17,468 | 4.9 | 7,689 | 6.42 | 25,157 | 5.40 | 555 | 30 |
| 1886 | 18,720 | 7.1 | 8,191 | 6.52 | 26,911 | 6.97 | 595 | 40 |
| 1887 | 19,285 | 3.0 | 8,448 | 3.13 | 27,733 | 3.05 | 620 | 25 |
| 1888 | 19,752 | 2.4 | 8,791 | 4.06 | 28,553 | 2.95 | 654 | 34 |

TABLE XIII.—Average enrollment of pupils, the number of teachers employed, the cost of tuition, and rates of increase for each year since 1880.

| School year ending June 30— | Average enrollment. | | Teachers. | | Cost (excluding rent and permanent improvements). | | | |
|-----------------------------|---------------------|------------------------|------------------|-----------|---|-------------------|------------------------|------------------------|
| | Total. | | Number employed. | | Per pupil (based on average enrollment). | Aggregate amount. | Per cent. of increase. | Per cent. of increase. |
| | No. | Per cent. of increase. | No. | Increase. | | | | |
| 1880 | 21,600 | | 434 | | \$16.95 | \$366,199.51 | | |
| 1881 | 22,061 | 2.13 | 461 | 27 | 17.28 | 381,314.19 | 4.12 | |
| 1882 | 22,826 | 3.46 | 485 | 24 | 17.44 | 398,254.54 | 4.44 | |
| 1883 | 23,594 | 3.36 | 505 | 20 | 17.78 | 419,594.60 | 5.35 | |
| 1884 | 23,867 | 1.11 | 525 | 20 | 18.22 | 435,032.79 | 3.67 | |
| 1885 | 25,157 | 5.40 | 555 | 30 | 18.66 | 469,550.51 | 7.93 | |
| 1886 | 26,911 | 6.97 | 595 | 40 | 17.76 | 477,993.67 | 1.79 | |
| 1887 | 27,733 | 3.05 | 620 | 25 | 19.11 | 509,194.01 | 6.52 | |
| 1888 | 28,553 | 2.95 | 654 | 34 | 19.11 | 545,717.71 | 7.17 | |

TABLE XIV.—Whole enrollment of pupils in white and colored schools, the number of teachers employed, and the cost of tuition for each year since the year 1880.

| School year ending June 30— | Whole enrollment. | | | | | | Teachers. | | Cost (excluding rent and permanent improvements). | | |
|-----------------------------|----------------------|------------------------|-------------------------------|------------------------|--------|------------------------|------------------------|-----------|---|-------------------|------------------------|
| | First six divisions. | | Seventh and eighth divisions. | | Total. | | Whole number employed. | Increase. | Per pupil (based on whole enrollment). | Aggregate amount. | Per cent. of increase. |
| | No. | Per cent. of increase. | No. | Per cent. of increase. | No. | Per cent. of increase. | | | | | |
| 1880 | 18,378 | | 8,061 | | 26,439 | | 434 | | \$13.85 | \$366,199.51 | |
| 1881 | 19,153 | 4.2 | 8,146 | 1.05 | 27,299 | 3.2 | 461 | 27 | 13.96 | 381,314.19 | 4.12 |
| 1882 | 19,031 | *.63 | 8,289 | 1.75 | 27,320 | | 485 | 24 | 14.57 | 398,254.54 | 4.44 |
| 1883 | 19,836 | 4.2 | 8,710 | 5.07 | 28,546 | 4.4 | 505 | 20 | 14.69 | 419,594.60 | 5.35 |
| 1884 | 21,221 | 6.9 | 9,167 | 5.24 | 30,388 | 6.4 | 525 | 20 | 14.31 | 435,032.79 | 3.67 |
| 1885 | 21,267 | .21 | 9,598 | 4.7 | 30,865 | 1.5 | 555 | 30 | 15.21 | 469,550.51 | 7.93 |
| 1886 | 22,198 | 4.3 | 10,138 | 5.62 | 32,336 | 4.7 | 595 | 40 | 14.78 | 477,993.67 | 1.79 |
| 1887 | 23,073 | 3.9 | 10,345 | 2.0 | 33,418 | 3.3 | 620 | 25 | 15.23 | 509,194.01 | 6.52 |
| 1888 | 23,810 | 3.1 | 11,040 | 6.71 | 34,850 | 4.28 | 654 | 34 | 15.65 | 545,717.71 | 7.17 |

* Decrease.

TABLE XV.—*Amount expended for rent and sites and buildings each year from the year 1880 to the year 1888 inclusive.*

| School year ending June 30— | Rent. | Sites and buildings. |
|-----------------------------|-------------|----------------------|
| 1880..... | \$28,998.35 | \$74,998.24 |
| 1881..... | 26,506.11 | 103,416.91 |
| 1882..... | 26,472.57 | 253,609.73 |
| 1883..... | 14,805.33 | 103,141.47 |
| 1884..... | 8,742.50 | 103,563.94 |
| 1885..... | 7,060.00 | 118,400.00 |
| 1886..... | 6,919.66 | 61,130.04 |
| 1887..... | 7,354.00 | 73,085.34 |
| 1888..... | 10,215.44 | 239,115.77 |

REPORT OF THE SUPERVISING PRINCIPAL OF THE FIRST DIVISION.

WASHINGTON, *June 30, 1888.*

DEAR SIR: I have the honor to submit herewith a report of the condition of the schools of the first division for the school year ending June 30, 1888.

I have included in this report tables of statistics showing important facts in relation to school accommodation, attendance and discipline; a brief statement of the work we have aimed to accomplish during the year, with an estimate of the degree of success or of failure attending our efforts.

SCHOOL ACCOMMODATIONS.

TABLE I.—*Showing distribution of schools by buildings.*

| | Eighth grade. | Seventh grade. | Sixth grade. | Fifth grade. | Fourth grade. | Third grade. | Second grade. | First grade. | Total. |
|-------------------------------|---------------|----------------|--------------|--------------|---------------|--------------|---------------|--------------|--------|
| Franklin | 3 | 4 | 4 | 1 | 1 | 1 | 1 | 1 | 16 |
| Dennison..... | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 15 |
| Force | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 14 |
| Analostan..... | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 14 |
| Thomson..... | | | | 2 | 2 | 1 | 1 | 1 | 7 |
| Fourteenth and N streets..... | | | | 1 | 1 | 1 | | | 3 |
| Weightman | | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 9 |
| Fourteenth and Q streets..... | | | | | | 1 | 1 | 1 | 3 |
| Total number of schools..... | 8 | 9 | 11 | 12 | 12 | 10 | 10 | 9 | 81 |

The completion of the Weightman building, by giving us additional seating room, made it possible to unite small schools formerly placed in rented rooms. We were thus enabled to provide for the natural growth in the different grades without increasing the number of schools in the division. New schools in the sixth and seventh grades were formed in the Weightman building to meet the demand for more high grade schools in that section. The four first grades of the abandoned buildings on F street and on Twenty-sixth street were combined, as were the four second grades, forming three schools of each grade, located in the Analostan and Weightman buildings. A further reduction of one was made in the number of first-grade schools at the Force building, where the number of applicants did not seem to warrant the continuance of two schools. A new second grade school in the Force was found necessary.

The placing of the primary grades, formerly unpleasantly located in the poorly-lighted and poorly-ventilated rooms of rented buildings, in

the Analostan and Weightman has resulted in a gratifying increase in the number of pupils attending these grades.

Your attention was called in my last report to the relatively small number of pupils attending lower-grade schools. The same abnormal condition was noticeable during the past year, to which fact I shall again direct your attention. I am led to believe that one principal cause for this has been the practice during past years of locating schools of these grades in the smaller, outlying buildings, which were often wholly unfit for school purposes. I need only instance as examples of this class of buildings the Thomson building, the Berret building on Fourteenth and Q streets, the old building on Twenty-second and I streets, and during the past year the buildings on F street and on Twenty sixth street. Whatever may have been the reason for this, I question the wisdom of such discrimination, and believe that to this, in a measure, we must attribute the unusually small relative enrollment in lower grades.

TABLE II.—*Showing condition of buildings.*

| Buildings | Heat. | Light. | Ventilation. | Water-Closets. | Play-rooms. | Yards. | Owned or rented. |
|--------------------|------------------|------------|--------------|----------------|-------------------|------------|------------------|
| Franklin | Steam | Excellent | Good | Good | Excellent | Excellent | Owned. |
| Thomson | Steam and
gas | Fair | Poor | Poor | None for
boys. | None | Owned. |
| 14th and Q sts. .. | Steam .. | Fair | Poor | Poor | None | None | Owned. |
| 14th and N sts. .. | Steam .. | Good | Poor | Good | None | None | Rented. |
| Danaher | Steam .. | Excellent | Excellent | Excellent | Excellent | Excellent | Owned. |
| Fort | Steam .. | Excellent | Good | Good | Excellent | Excellent | Owned. |
| Analostan | Steam .. | Excellent | Excellent | Excellent | Excellent | Excellent | Owned. |
| Weightman | Flue-gas | Excellent | Excellent | Excellent | Excellent | Excellent | Owned. |

* Lower rooms poor; upper rooms good. † East and west rooms good; middle room poor.

In my report of last year I referred to the emphatic objection on the part of parents and pupils to the Thomson building and to the building on Fourteenth and Q streets. In your report you emphasized my objections by characterizing these buildings as wholly unfit for school purposes. The objections to them were removed in only a slight degree. Whitewash and paint made the Q street school less objectionable, and a fire-escape, added late in the year to the Thomson building, lessens the danger in case of fire. Still, in many ways, both buildings are poorly adapted for school purposes. In no respect is the Q street building a fit place for young children. The Thomson building is without sufficient play-room or yards. The rooms are wholly without artificial ventilation, and the light is often poor. In case of fire or panic the danger to children is great, owing to the height of the building and to the fact that there is but one avenue of escape.

I sincerely hope that we shall soon be able to dispense with these buildings, or at least that they may be used for shops and cooking schools. For this purpose the Thomson is admirably adapted; the rooms being large and the location central.

The buildings generally have been well cared for during the past year. Here and there, in poorly disciplined schools, or where the teacher has failed to make frequent examinations of school furniture, desks have been marked and scratched to some extent. Generally, teachers and pupils have kept desks free from ink-stains and marks. In many schools entire sets of furniture have been varnished or oiled by pupils. There has been but little defacing of walls and wood-work in play-rooms and hall-ways. This is due in a great measure to the

zealous watchfulness of principals. Almost without exception have the janitors been faithful and competent in the discharge of their duties. Buildings have been kept scrupulously clean and the temperature of rooms carefully watched and regulated. There is often, it seems to me, a useless delay in the making of minor repairs, owing to the fact that janitors are not supplied with the tools and materials necessary.

TABLE III.—*Showing half-day schools.*

| Schools. | Number of half-day schools. | Grades of half-day schools. | Number above second grade. |
|-----------------|-----------------------------|-----------------------------|----------------------------|
| Franklin..... | 2 | 1, 2 | ..... |
| Thomson | 2 | 1, 2 | ..... |
| Dennison | 6 | 1, 2, 3, 4 | 2 |
| Q Street | 2 | 1, 2 | ..... |
| Force | 7 | 1, 2, 3, 4 | 4 |
| Analostan | 4 | 1, 2 | ..... |
| Weightman | 2 | 1, 2 | ..... |
| Total | 25 | ..... | 6 |

Fortunately we have been able to restore to full sessions several of the half-day schools of grades three and four, formerly made necessary by insufficient school accommodation. As you will observe in the above summary, there are still six half-day schools in grades above the second. But one additional room could be procured in the northwestern section of the District, although the renting of four was recommended. Third and fourth grade schools in the Force and Dennison buildings were therefore put upon half time. The result was disastrous to the progress of pupils in these schools, as it must always be when the working time of a day is limited to three hours. The liberal estimates of the Commissioners, recommending an appropriation for two 8-room buildings in this division, will make it possible in the near future to give to each school a room and its proper allotment of time. For the ensuing year six additional rooms must be rented or third and fourth grades must again suffer.

TABLE IV.—*Showing distribution of pupils by grades, average age, and average number per teacher.*

| Grade. | No. of schools. | Whole enrollment. | Average enrollment. | Per cent. based on average enrollment. | Average age (years). | Average number of pupils per teacher. | |
|---------------|-----------------|-------------------|---------------------|--|----------------------|---------------------------------------|------------------------------|
| | | | | | | Based on whole enrollment. | Based on average enrollment. |
| Eighth | 8 | 441 | 369 | 10 | 14.4 | 55 | 46 |
| Seventh | 9 | 514 | 442 | 12 | 13.5 | 57 | 49 |
| Sixth | 11 | 526 | 449 | 12 | 12.4 | 47 | 40.8 |
| Fifth | 12 | 667 | 569 | 16 | 11.4 | 57 | 47 |
| Fourth | 12 | 662 | 541 | 15 | 10.3 | 55 | 45 |
| Third | 10 | 572 | 463 | 13 | 9.4 | 57 | 46.3 |
| Second | 10 | 489 | 384 | 11 | 7.8 | 49 | 38.4 |
| First | 9 | 596 | 411 | 11 | 6.8 | 66 | 45 |
| Total | 81 | 4,467 | 3,658 | 100 | ..... | 55 | 45 |

The above summary shows an increased enrollment of 88 during the year.

I desire again to refer to the low percentage of pupils attending primary grades. I have already mentioned one important reason, in my judgment, for this peculiarity. Other satisfactory reasons I am unable to give, unless one be that there has been a higher standard of excellence in teaching in the higher grades, a condition due to the necessity of promotion in grade of work in order to secure to the most successful teachers promotion in salary.

ATTENDANCE.

TABLE V.—*Showing percentage of attendance, cases of tardiness, and absence of teachers.*

| | Percent-
age of at-
tendance. | Cases of
tardiness. | Substitute
service. |
|-----------------|-------------------------------------|------------------------|------------------------|
| September | 93.9 | 199 | 11 |
| October | 95.3 | 591 | 11.5 |
| November | 96.2 | 805 | 6.5 |
| December | 97.3 | 644 | 7 |
| January | 89.9 | 1,027 | 38 |
| February | 90.1 | 781 | 30 |
| March | 89 | 686 | 30.5 |
| April | 92.2 | 672 | 23.5 |
| May | 89.6 | 663 | 15 |
| June | 92.6 | 321 | |

It will be seen that the percentage of attendance has been somewhat lower than during last year. An appended statement showing the absence due to an epidemic of measles during four months of the year sufficiently explains this, I think. I regret to say that the number of cases of tardiness in schools of the first division is without question too large. This plainly indicates a failure on the part of some teachers to treat this question intelligently and successfully. It also shows an indifference often on the part of parents to the best interests of their children. An intelligent parent must realize the great educational value of the training given in our public schools in forming habits of promptness and punctuality in all that pertains to school life. Nor can they fail to realize the importance of uninterrupted attendance in its bearing on the intellectual development of the child. A day here and a half day there, unnecessarily lost out of school life, involves the loss of far more than the day's recitations, though parents and pupils may fail to realize it.

To remedy this evil I regard it as essentially important that the teacher should exercise a constant watchfulness for any delinquencies on the part of children; that they should invariably endeavor to impress upon both pupils and parents the importance of promptness and punctuality; that they should ascertain, when possible, the true reasons for absence or tardiness. I have found also that it has proved very helpful to require pupils who are habitually tardy or absent to report to principals of buildings. I hope for a decided improvement during the ensuing year.

I wish to refer in this connection to the rule of the schools which allows teachers to require written excuses for tardiness or absence before re-admission to schools. The strict enforcement of the letter of this rule often results in a great loss of time to pupils and unnecessary annoyance to parents, and quite frequently encourages further absence by furnishing the child with an excuse for loitering, or remaining away altogether. I believe this rule should be interpreted broadly and intelligently, and

should only be strictly enforced when all other means of communication with parents have failed.

The aggregate amount of substitute work reported emphasizes the importance of providing a competent corps of substitute teachers. I believe an effort should be made to require substitutes to be in attendance at the offices of principals each school day. I believe, furthermore, that they should be familiarized with the requirements of their work by such definite instruction as could be given in talks or lectures.

TABLE VI.—*Showing absence caused by contagious diseases.*

| | Grade 8. | Grade 7. | Grade 6. | Grade 5. | Grade 4. | Grade 3. | Grade 2. | Grade 1. | Total. |
|---------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| Number of pupils absent.. | 63 | 72 | 130 | 132 | 175 | 181 | 160 | 229 | 1,142 |
| Number of days absent (recorded)..... | 156 | 212 | 408 | 365 | 504 | 536 | 486 | 683 | 3,350 |

The absence summarized above was caused by the personal sickness of pupils or by the presence of contagious diseases in their homes. During four months of the year, from December to April, the measles raged in different portions of the division. Fortunately it was of a mild type, and but few cases resulted seriously. Every precaution was taken to prevent its spread, but without success. Many of the primary schools were at times almost without pupils, and, as a result, the work was seriously interrupted.

DISCIPLINE.

A large proportion of the suspensions reported were for truancy and irregularity of attendance. It is gratifying to report fewer cases than during last year.

Dismissals have been, in nearly every case, for theft of school property.

The loss of books and other articles belonging to pupils and to the schools has been a source of much anxiety and annoyance. In a few cases the offenders were discovered and punished by dismissal, but in the majority of cases it has been impossible to trace the thefts, though every effort was made to discover them. Every precaution was taken to protect the property left in school buildings.

I am forced to believe from the experience of the past three years that there can be but little done to remedy this great evil until the certainty of some punishment more severe than dismissal is assured, and until some effective means can be found to prevent dealers in second-hand books from buying indiscriminately from pupils. I believe the best interests of the schools demand strong and vigorous measures in dealing with both the buyer and the seller.

The discipline of school buildings has been uniformly excellent. I can not speak too highly of the good work done by the principals of buildings. Though responsible for the teaching of the highest classes, they have been of the greatest assistance in the organization and management of the schools under their charge.

The order in school rooms has been very generally excellent; in fact, of the eighty-one schools of this division I have only to report four as unsatisfactory in this particular.

In this connection I think it is proper to speak of some few mistakes in school management observed here and there during the year. The

points mentioned are by no means common to all schools, but are of sufficient importance, I think, to warrant notice here.

One of these faults is the failure of a few teachers to develop in the pupils habits of carefulness in the use of books and materials. Children, unless trained and trained, will disfigure the pages of text-books with ink-stains; will endeavor to improve the illustrations with pen and pencil; will tear the pages and break the covers. They will break out-pencils and use the pieces, unsheathed, for school work; will throw paper on the floor rather than in the waste-basket; will soil and mark desks and break windows, if they may. There is a moral implication, I think, in a teacher's neglecting this side of a child's development as strong as the obligation which binds him to teach the prescribed amount of arithmetic or geography.

There is here and there observed a carelessness of the personal appearance of pupils. They are allowed to remain in school with dirty hands and faces, powdered hair and soiled shoes. The teacher's desk, inside and out, is often a contradiction to practice to her precepts. Window ledges, paper boxes, papers—all too often show evidence of poor housekeeping. In some schools, black-board work is apt to be careless; there is generally a lack of ornamentation about the room; there are no flowers in the windows.

I believe that the influence upon a pupil made by pleasant surroundings, though indirect, is not slight; and the teacher who does not see in this a means of training her pupils neglects to take advantage of one of the greatest aids in securing good discipline.

In a few schools I have found pupils without materials for work—without pencils, slates, or possibly books. I recognize the difficulty in making pupils and parents prompt in this particular, and other discouraging elements in the question, but no effort should be spared to provide pupils with the tools for work.

Perhaps here I may refer to the loss of time in some schools, due generally, I think, to poor discipline, lack of preparation of material on the part of the teacher, or indigent habits among pupils. The aggregate amount of time lost may easily become surprisingly great. Sometimes also I have thought the results of an hour's or half-hour's teaching hardly warranted the effort and the time.

In concluding this part of my report I desire to state that in my judgment the schools of the first division were never in better condition, as far as school accommodation, attendance, and discipline are concerned, than at the present time.

SCHOOL WORK.

The plan of supervision was much the same as during the past year. Frequent inspections of all grades were made under your direction, and detailed reports of these inspections given to you at meetings of the principals in your office. In addition to this, there were numerous meetings of teachers by grades, at which the purpose of the work and the methods of working were fully discussed. To supplement these meetings, the first division teachers were called together by grades for the purpose of further considering any points bearing upon the work of the school-room. Questions of discipline and management were discussed usually at meetings of the teachers held in the different buildings.

At different times during the year lessons on various subjects were given by teachers of the several grades for the benefit of other teachers in those grades. The purpose of such lessons was always to sug-

gest to the teachers the most approved methods of work. These lessons, supplemented by earnest questioning and discussion on the part of teachers and by suggestions from the superintendent, could not fail to be productive of the best results. The effect of the admirable series of lessons in history given by several teachers of the seventh grade and of the lessons in language and geography given by teachers of primary grades was observed in every school. The results were thoughtful questioning as to the purposes of the work and an earnest search for the best methods of accomplishing it.

It is a pleasure to be able to report that during the past year the teachers of the first division have labored faithfully, intelligently and successfully. It is my belief that there has been more good teaching, with better results, than ever before since my connection with the schools.

Number.—During the year a manual of number work for third grades was put into the hands of teachers. For the higher grades the work was elaborated in the course of study. As a result of these publications there has been a better understanding of the relation of the work of each grade to the rest of the course. I have observed in general that the work of all teachers has shown a marked improvement in method, resulting naturally in a more thorough understanding of the relations of numbers. I have noticed but little machine work with figures. Quite generally pupils have dealt with small numbers readily comprehended. I have observed further in all grades a commendable effort to make the practical application of the work prominent; the requirement of the making and solving by pupils of simple problems illustrative of principles developed; the expression of these written problems in mathematical language; the development and formulation of rules of work.

Although the character of the work in number has been generally excellent, I have naturally discovered here and there practices to criticize, some of which I briefly mention.

There is a tendency on the part of a few unthinking teachers to continue the objective work in lower grades when the necessity for the objects has ceased to exist. Occasionally also in the primary grades have teachers failed to supplement the work of seeing by the drill work necessary to make the knowledge of the facts discovered permanent. Too often also I have observed that pupils are not accurate workers, a result naturally following the failure to make the child positive in his knowledge of facts discovered. A further result of this is that pupils are not rapid workers. I would not suggest less work in development, but that there be more drill work to supplement it. In the seventh and eighth grades I have sometimes found that teachers were assigning problems too intricate to warrant the time spent in solving. I do not believe such problems are necessary to the thorough understanding of number. In all grades I am convinced that more time is devoted to the study of arithmetic than its relative importance as a part of our school curriculum and as a factor in the development and training of our children warrants.

Penmanship.—Instruction in penmanship in the higher grades has been limited largely to the formation of good habits. To accomplish this teachers have insisted that all written work should represent the best efforts of the pupil. In the lower grades careful instruction in the form of letters has been given. Added to this, during the first eight weeks of the year, exercises in pen-holding, position and movement drills have been an important feature of the work.

There are serious grounds, I believe, for questioning the value of this latter work as it is done in some schools. As an exercise in itself it is practically useless. If in practice the teacher fails to apply the results to the writing of the school its purpose is missed. Too often the lesson in correct position and pen-holding consists of the study of principles forgotten when there is an opportunity for their practical application. Furthermore, it is often forgotten that the end to be gained is not the ability to make straight lines or correct ovals, but rather that training of the arm and hand which is essential to ease in writing. In this exercise, as in drawing exercises for a similar purpose, I observe that some teachers have gone through the form of teaching without an adequate idea of its purpose or place in the school work. Generally, however, the penmanship has been excellent.

Spelling.—Briefly stated, I have found that the efforts of teachers have been directed towards cultivating in pupils a feeling of personal responsibility for the correct spelling of every written word. The result of this work when conscientiously done is that pupils more frequently consult dictionaries and authorities, and have acquired very generally the *habit* of ascertaining the correct form of words before attempting to use them. The study of the form, meaning and use of words not ordinarily used by pupils has been an important part of the work in this branch. The written work examined shows conclusively that the work has been properly done.

Physiology.—Lessons in hygiene have been given in all grades. In the third and fifth grades sets of text-books have been furnished, adding materially to the supplementary reading matter so much needed in these grades. Selected topics, studied as wholes, were profitably used for composition work. When practicable the subject has been presented objectively. I have observed here and there a tendency to devote too much time to the study of technical physiology and anatomy.

Reading.—In your report of last year you say that the teaching of reading is naturally divided into two parts: first, the teaching the pupil to recognize the words of his vocabulary, to grasp readily the thought expressed by what is read, and to read aloud; second, training pupils to an appreciation of what is read, to a knowledge of how to read, and how to use the results obtained by reading.

The first part of this work has been well done in the primary grades, as is evidenced by the fact that the reading in these grades has never been better than at present. There has been almost uniformly a most careful preparation of the reading lessons. In the first and second grades the new words of the text to be read have been studied and used in many combinations before the printed page has been put before the child. The result is that he readily grasps the thought of what he reads, unhampered by the difficulties presented by new words. The oral reading, as a result of the seeing the thought of what is read, has been better than ever before. Another cause for this excellence is to be found in the fact that pupils have read more than ever before. Supplementing the reading books of this grade, compositions written by the children, black-board exercises embodying the new words taught, lessons prepared by teachers, stories from children's papers and magazines, other readers of the same class, and sets of books furnished for the use of these grades have been read.

The teaching of sounds necessary, I believe, to make the child independent of the teacher's constant assistance has been somewhat neglected, I fear. I consider this a most important part of the work of the grade. It is unreasonable to expect a child to help himself with-

out furnishing him with the means. He can not by his own effort add to his store of new words without a knowledge of the values of the letters that compose them. Before the child leaves the first grade he should know these sounds thoroughly.

In the higher grades a correspondingly large amount of reading has been done. In these grades the teaching of how to read has been subordinated to the teaching of reading as a means of getting at the thought of what is read. In most schools a large amount of reading has been done, most of it to supplement the work in history and geography. The requirements of the course of study have made this almost necessary. The amount read and the kinds of reading varied, of course, according to the opportunities pupils had to consult books at home or the possibility of their enjoying the benefit of public libraries. Many books have been purchased by pupils. Teachers generally have contributed from their own libraries books that have been of incalculable value in the school work. During the year several copies of McMaster's History of the United States have been placed in each of the eighth grade schools. This is a good beginning, but many more books are needed in all grades if we would train pupils to an appreciation of good literature or to a knowledge of how to read.

Language.—The teaching of language has been an inseparable part of the instruction in every branch taught in our schools, and in no branch has there been so marked an improvement. There has been a constant effort to make the teaching practical. Much attention has been given to the expression and arrangement of thought in all oral as well as in all written work.

The composition work in all grades has been intelligently done. In primary grades the children have been led to see groups of facts suggested by pictures, objects, etc., have been trained in the proper arrangement of these facts or thoughts, and, when needed, have been furnished with the idioms necessary to show the proper relations of the thoughts seen. Facts in technical grammar, plurals, possessives, a few rules in capitalization and punctuation have been taught as the necessity for a knowledge of these facts became apparent. In the higher grades the same care in preparation has been shown. Pupils have written much. They have been carefully trained to make outlines from which the compositions or recitations have been made. They have acquired some practical familiarity with the principal rules of structure governing correct expression.

The teaching of technical grammar has received proper attention.

Geography.—There has been a marked improvement in method in the teaching of geography during the past year. An exhibit illustrative of the different kinds of work done in the different schools was held late in the year. Though showing the best work in each grade it nevertheless fairly represented the kinds of work seen in nearly every school where the subject is taught. Valuable collections of pictures, books, curiosities, and objects representing the life of the people studied have been made. Pupils and parents have aided materially in this work. Maps illustrating commercial relations of countries, physical features, climatic conditions, charts representing graphically comparative statistics, relief maps, etc., have been a prominent part of the work. Charts of products, charts of pictures showing processes in the working up of raw materials have been made. Much valuable work has also been done in the study of representative cities. Map work has not been regarded as an end, but as a means. Elaborate work has been discouraged as an essential part of geography. Much rapid sketching of maps has been

done to fix in the minds of pupils correct impressions of general outlines, to show the relative position of places and the relative size of countries.

The one thing needed to make this work more uniformly successful is a supply of the best books to supplement the text-books and the incomplete libraries of schools.

History.—The same improvement in method observed in geography has characterized the work in history. I have already referred to the good resulting from the excellent lessons given by the teachers of the several grades illustrating the best methods of teaching. The most serious obstacle the teacher has to meet in her work is the want of sufficient reading material. They have generously contributed from their bookshelves, and pupils and parents have loaned books for general use. Often, however, it has been impossible to secure many good books. In all schools considerable reading has been done. Great care has been shown in the systematizing of work. Pupils have recited or written from outlines developed by themselves. Much detail that is unimportant has been eliminated from the teaching. Map work, as an aid in teaching, has been always a prominent feature of the work.

Manual training.—There were no schools for manual training or cooking established in the first division, though an opportunity was given to send classes from three eighth-grade schools to the shops on O street for work in wood. I quote from the reports of the principals of these schools to show their opinions of the educational value of this kind of work and its effect upon the scholastic requirements of the grade.

Mr. William Quinby, principal of the Dennison School, says:

During the past year twenty-four pupils of my school attended the manual training school. The time allotted for this work was two hours per week. I gave this subject special attention in order to determine whether it interfered with or aided the other work of the school. My conclusion is that manual training is a positive benefit to the other school work. The interest in the work was maintained to the end of the year. In several cases a marked mechanical aptitude was discovered.

The cases of the pupils will illustrate how the work done in the shops aided me in the school-room. These pupils became enthusiastic in their shop-work, but were rather indifferent to their school arithmetic. As the year progressed I demonstrated to these pupils that they would always be at a disadvantage in mechanical work unless they understood the essential rules and principles of arithmetic. The young men saw the point and went to work with a will. I do not ask for better work in arithmetic or in other studies that was done by these pupils during the remainder of the year.

Mr. E. G. Kimball, principal of the Franklin School, says:

Twenty-four of my pupils have, during the past year, had instruction in manual training. With few, if any, exceptions they have shown a deep interest in this work and many satisfactory results were gained. I do not think their book-work has suffered from the time given to their hand-work.

I am heartily in favor of mechanical training in the public schools.

Mr. W. B. Patterson, principal of the Force School, reports:

The manual training class from this school numbered twenty during the year 1897-98. Leaving the building every Monday at 12 m., they returned as soon as the lesson was completed, all being in their seats by 2:30 p. m., thus losing but little time from the routine work of the eighth grade school.

These boys were almost entirely ignorant of the use of tools when they began to attend the training-school, but at the conclusion of their labor they had made considerable progress, especially in mortise and tenon, molding, and framing work.

They manufactured some whetstone boxes in a manner worthy of more experienced hands.

It is gratifying to know that during the ensuing year there is a possibility of according to every pupil of seventh and eighth grade schools the privilege of work in shops or in cooking-schools, and to girls of grades

four, five and six instruction in sewing. There can be no question, I believe, as to the propriety of giving these studies a place in the school curriculum. The time for this work can profitably be taken from that usually given to arithmetic.

In conclusion, I wish again to refer to the faithfulness and loyalty of the teachers of the first division in their efforts to do the work intrusted to them. They have cheerfully co-operated with me in carrying out all of your suggestions. To them should be given all credit for the general excellence of the schools. I wish here to express my appreciation of their assistance and courtesy and to acknowledge my indebtedness to Mr. J. J. Darlington, trustee of the division, and to you for your encouragement and support in all official relations.

Very respectfully,

N. D. CRAM,
Supervising Principal.

Mr. W. B. POWELL,
Superintendent of Public Schools.

REPORT OF THE SUPERVISING PRINCIPAL OF THE SECOND DIVISION.

WASHINGTON, D. C., *June 30, 1888.*

DEAR SIR: In compliance with your request the following brief report of the schools of the Second division for the school year 1887-'88, is respectfully submitted.

Two new schools were organized this year, making a total of 97 schools. Of these, 13 were first grade, 12 second grade, 12 third grade, 14 fourth grade, 13 fifth grade, 13 sixth grade, 10 seventh grade, and 10 eighth grade.

Two eight room buildings, the Blake and the Phelps, were completed and occupied early in the year, and two rented and two basement rooms were given up, making a net gain of 12 rooms and a total of 88 rooms for the use of 97 schools. Thus, 18 schools were on half time as against 38 last year. For the first time in my experience no rented rooms have been used. The sanitary condition of all the buildings is good, all are well lighted, and there is but small complaint to be made of the heating and ventilation.

Table showing the aggregate enrollment and the average attendance in the schools for the year.

| Months. | Aggregate enrollment. | Average attendance. | Months. | Aggregate enrollment. | Average attendance. |
|-----------------|-----------------------|---------------------|----------------|-----------------------|---------------------|
| September | 4,839 | 4,495 | February | 4,717 | 4,229 |
| October | 5,028 | 4,660 | March | 4,630 | 4,059 |
| November | 5,143 | 4,662 | April | 4,542 | 4,290 |
| December | 4,996 | 4,525 | May | 4,613 | 4,127 |
| January | 4,863 | 4,362 | June | 4,438 | 4,135 |

The largest aggregate enrollment of pupils was 5,143, in November—an average of 52.4 for each teacher. .

The percentage of attendance has fallen somewhat below that of previous years. This was largely due to the unusual prevalence in the schools of the various epidemics to which children are subject.

Sickness and other causes have wrought more than the usual number of changes of teachers. Two have been removed by death. Mrs. M. L. Walker and Miss E. L. Prather, whose many virtues and earnest, self-sacrificing labors in their chosen calling are worthy of grateful remembrance.

The principals are entitled to much credit for the good order which has prevailed in and about our school buildings, and few of them have complained of want of co-operation on the part of teachers.

The discipline in the school-rooms has been generally good. A few teachers are weak, but a disorderly school is a rare exception.

Corporal punishment is little used. "Keeping in," which formerly was universal, is still too prevalent, though the best teachers rarely resort to it. The co-operation of parents has been sought as the most efficient aid to discipline in the cases of truants and refractory pupils.

The teachers have been much helped in their work by the revised course of study which was placed in their hands at the beginning of the year. This outline, supplemented by the suggestions and instructions of yourself and the special teachers in the grade meetings, has given to the school work a definiteness and clearness of purpose not always to be found heretofore.

In reading, more use has been made of suitable selected matter for sight reading, generally in connection with other branches of study, than of the prescribed text-books in reading. The pupils are more interested in the collateral reading, and so are more profited by it. There is need of a greater variety of reading matter in the lower grades. The reading in the higher grades is chiefly for information.

In the primary grades more attention has been paid to phonetic drill, while the objective word method has not been neglected.

In spelling, the lists for special study have been carefully selected and special drill given in the words most frequently misspelled. Constant attention is given, also, to spelling in all written work, in order that the pupil may early form good habits in observing and avoiding his mistakes. This is most excellent work, but most teachers find special work in spelling to be indispensable.

In arithmetic the work assigned to each grade has been in general better done than last year. In the lower grades numbers and their relations have been developed by an intelligent use of the objective method.

The making and analysis of problems have been a leading feature of the work in all grades, with excellent results in the way of clear thinking and correct expression.

I have noted a rather general lack of facility in rapid and accurate mental work, but, as a whole, this subject is well taught.

Language teaching has been made practical. Careful attention has been paid to correct expression on the part of pupils in all school exercises. Much special work has also been done in the study of words, idioms, sentences, punctuation, etc. Many compositions have been written on themes selected mainly from history, geography, and other branches of study, systematic outlines having first been prepared to insure a natural and logical arrangement of topics.

Much time has been given to this subject of language in all grades, and especially in the lower, and with good results.

Special features in geography have been the larger use of illustrative objects, such as product charts, contributed mostly by pupils; molded maps, globes, and plans of cities; a more intelligent selection of topics for study, and a nicer discrimination in the use of them.

Commendable zeal has been shown by teachers and pupils in searching for outside information, and much profitable reading has been done in connection with this branch of study.

The work in history has in large measure been done outside the text-book. Special attention has been paid to biography and to such collateral reading as would help to form an adequate historical background and setting for the men and the events to be studied. Several teachers have shown much skill and good judgment in the systematic grouping and outlining of the work, to secure symmetrical treatment and to avoid confusion and needless details. Both thorough and practical work has been done in the study of the Constitution in the eighth grade.

Manual training, in its various forms, has been a prominent feature of the work of the year, and with excellent results. In the lower grades stick-laying, drawing, modeling, and paper-folding have served to arouse interest, to develop ideas of form, to cultivate manual dexterity, and to facilitate expression both in form and language. The constructive drawing and modeling were new work to most of the teachers, but were undertaken with an excellent spirit under the intelligent guidance of Mrs. Fuller; and the results, as shown in the spring exhibition, exceeded our expectations.

Lessons in cooking were had in only one school, whose teacher, Miss Steele, reports that the pupils enjoyed the work and found it profitable; that some of them have made successful application of their new acquirements at home, to the comfort and delight of their parents; and that the general work of the school has been better than usual both in quantity and quality.

Of the teachers whose boys did shop work, Mr. Thomson reports:

My boys were very much interested in the work and it did not hurt my school. I am sure the boys studied as faithfully as ever before. I do not think any change in the course of study need be made because of the introduction of shop-work.

Mr. Clark says:

I do not think the scholarship of those going to the training school was materially lowered. The time lost in the school-room was divided equally among certain studies, so that no study was made to suffer. In my judgment, nothing need be omitted from the course of study on account of the new work. So far as my observation goes, I believe the shop-work to be a success. It has benefited my boys in the following ways: It has aroused interest in the work and this interest has extended to other school work, particularly to drawing. They are taught to use their hands, and can make many useful things, even after one year's work. I can not say that it has yet developed that manual training makes better scholars, but in some cases I think it has been a help in discipline.

Miss Brown reports:

The boys were much interested in the work and made many useful articles for the school-room. The shop-work did not interfere with their other duties. The required limits were reached in all their studies.

My own observation confirms the favorable judgments expressed in the above quotations.

In closing, I wish to commend the excellent spirit in which the teachers have co-operated with me and with one another in the work of a busy year, and to express to you my thanks for your uniform kindness and courtesy.

Very respectfully,

N. P. GAGE,
Supervising Principal.

Mr. W. B. POWELL,
Superintendent of Public Schools.

REPORT OF THE SUPERVISING PRINCIPAL OF THE THIRD DIVISION.

WASHINGTON, D. C., June 30, 1883.

DEAR SIR: I respectfully submit my report of the schools of the third division for the year just closed:

Number of schools.

| | |
|---------------------|----|
| First grade | 14 |
| Second grade | 13 |
| Third grade | 13 |
| Fourth grade | 12 |
| Fifth grade | 13 |
| Sixth grade | 10 |
| Seventh grade | 8 |
| Eighth grade | 5 |
| Total | 88 |

This is an increase of five schools over last year's number, namely: One each of the first, second, and sixth grades, in the Maury, a seventh grade in the Towers, and a third in the Peabody.

The largest enrollment of pupils was 4,409, in the month of October, being an average of fifty pupils to a teacher.

The increase in the number of pupils over the largest enrollment of last year was 173.

The following table shows how the schools were distributed:

| Building. | Grade 1. | Grade 2. | Grade 3. | Grade 4. | Grade 5. | Grade 6. | Grade 7. | Grade 8. | No. of schools. | No. of pupils. |
|------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|----------------|
| Wellch | | | | 2 | 3 | 2 | 2 | 2 | 10 | 10 |
| Peabody | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 13 | 13 |
| Carberry | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 7 | 7 |
| Maury | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 7 | 7 |
| Towers | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 8 |
| Brant | 1 | 1 | 1 | 1 | 1 | 1 | | | 6 | 6 |
| Chapin | 1 | 1 | 1 | 1 | | | | | 4 | 4 |
| McIntosh | 1 | 1 | 1 | 1 | | | | | 4 | 4 |
| Fifth and Virginia
avenue | | | | | 1 | 1 | | | 2 | 2 |
| Leary | | 1 | 1 | | | | | | 2 | 2 |
| Seventh and F
southeast | 1 | 1 | | | | | | | 2 | 2 |
| Total | 14 | 13 | 13 | 12 | 13 | 10 | 8 | 5 | 88 | 88 |

The following table shows the location and grades of half-day schools.

| Location. | Grade 1. | Grade 2. | Grade 3. | Total. |
|----------------|----------|----------|----------|--------|
| Peabody | 2 | | | 2 |
| Carberry | 2 | 1 | 1 | 4 |
| Maury | 2 | 1 | 1 | 4 |
| Towers | 2 | 1 | 1 | 4 |
| Brant | 2 | 1 | 1 | 4 |
| Chapin | 2 | 1 | 1 | 4 |
| Total | 8 | 5 | 5 | 18 |

BUILDINGS.

The following table shows the sanitary condition of buildings:

Owned buildings.

| Building. | Number of rooms. | Light. | Ventilation. | Water-closets. |
|-------------------------------|------------------|-----------------|----------------|----------------|
| Wallach | 12 | Excellent..... | Bad | Excellent. |
| Peabody | 12 | do | Excellent..... | Do. |
| Carberry | 8 | do | do | Do. |
| Blair | 8 | do | do | Do. |
| Maury | 8 | do | do | Do. |
| Towers | 8 | do | do | Do. |
| Brent | 8 | do | do | Do. |
| Cranch | 6 | Excellent*..... | Fair | Do. |
| McCormick | 4 | Excellent..... | do | Bad. |
| Lenox | 2 | Fair | None | Do. |
| Seventh and G southeast | 2 | Bad | do | Fair. |
| Total | 78 | | | |

Rented buildings.

| | | | | |
|---|---|------------|------------|------|
| Fifth and Virginia avenue southeast | 2 | Fair | None | Bad. |
|---|---|------------|------------|------|

* Excepting the two rooms on the third floor.

A comparison of the above tables with the corresponding ones in my last report shows an addition of three to the number of owned buildings, namely, the Maury, the Towers, and the Carberry.

Each of these buildings contains eight ample, well-arranged and well-furnished school-rooms, whose completion largely reduced the number of half-day schools, and enabled us to abandon nine very undesirable rented rooms—two at Esputa's Hall, one on North Capitol between B and C, four at Peabody Annex, one at Seventh and A northeast, and one at Third and B southeast.

It is to be regretted, however, that the plans of these new buildings did not provide coal-vaults, as the occupancy of the play-rooms for the storage of fuel is objectionable.

It is expected that the completion of a new eight-room building in 1889 will vacate the rooms now occupied at Seventh and G southeast, Fifth and Virginia avenue, and the Lenox School, none of which are fit for school purposes.

The crowded condition of the Blair School and the growing population thereabouts demand the immediate erection of an eight-room building in the extreme northeast. Meantime the rooms formerly used for school purposes situated at the corner of Eighth and I northeast will have to be re-rented.

At this point I desire to call your attention to the necessity of improving the ventilation of our older buildings—the Wallach, Cranch, and McCormick.

The Wallach was built in 1864. It was the first twelve-room building erected in this city. From plans found in the twentieth annual report (1865, p. 51) it appears that sufficient provision was made by the architect for exhausting the foul air of the school-rooms. The method is thus described:

The ventilation is effected by means of ventilating shafts, two for each room, which are provided with two registers, one near the floor, the other near the ceiling. These lower registers communicate through the rooms of the basement with the furnaces. There the process of combustion draws the vitiated air from the rooms, and it passes off through the smoke-stacks.

This system of ventilation evidently became inoperative at the time the furnaces were displaced by steam-heating appliances, for an examination of the foul-air flues (marked V in the plans) discloses the fact that in some rooms both registers have been sealed up, and in others the upper one is left open while the lower is used for a heat register.

So far as I can see there is not a room in the building that has any artificial means of ventilation whatever. I do not know who is responsible for diverting these ventilating flues from their original uses, but I think steps should be taken at once to restore them. If this can not be done the four draught chimneys, not now in use, should be enlarged and used as ventilating shafts. This latter suggestion was made by a committee of the board of trustees as far back as 1878. (See report 1877-78, page 21.)

Similar criticisms might be applied to the Cranch and McCormick building.

On the whole, however, it is gratifying to be able to say that the condition of our school-rooms, from a sanitary point of view, grows better year by year. Of the 78 rooms owned by the District in this division 74 are comfortably heated, 75 could scarcely be improved as to light, and 70 are provided with sanitary water-closet accommodations. Unfortunately, however, only 52 can be said to be amply ventilated by artificial means. I am sure you will agree with me when I say that these 26 remaining school rooms, each of them occupied by 50 children, demanding for the best mental and physical results a ceaseless renewal of air, should speedily be provided with facilities for complete ventilation.

I think it is very important that while we are emphasizing physical culture we should do all we can to surround our pupils with conditions favorable to health.

The teachers are waking up to the vast importance of looking after the bodies of their pupils. Some of the praiseworthy fruits are: Scrupulous attention to the temperature of the school-room; frequent changing of the air of the same; occasional five-minute recesses; attention to posture in sitting, standing, singing, writing, and drawing; the decline of "keeping in"; the cultivation of natural and pleasing tones of the voice in all vocal exercises; practical lessons in hygiene.

To these ought to be added before long: Earnest and friendly talks with pupils on food, clothing, cleanliness, care of the skin, teeth, and eyes; common precautions against taking cold; effects of tobacco and alcohol; the folly and danger of spending the noon hour in a stifling play-room in good weather when the air outside is wholesome and bracing.

Then the teacher's bodily condition is not without its lessons. Those benign manifestations of a good digestion and a temperate mode of life which are seen in a beaming face and an alert mind become perpetual incentives to the child. It does not take a boy long to reason out for himself the hidden relation between dyspepsia and peevishness; a scowl and a headache; a winsome smile and a good circulation; Squeers' petulant voice and last night's insomnia; a limp and drowsy handling of the school to day and late hours yesterday.

ATTENDANCE.

The attendance has been uniformly good. The number of cases of tardiness has been small. Measles appeared in the spring in certain localities. Here and there schools were decimated, but the great majority were exempt. Every reasonable precaution has been taken to

detect contagious diseases, and I am glad to report that we have had no serious inroads from the more dangerous forms of contagion such as diphtheria and scarlet fever. Pupils are never suffered to return to school from households in which such sickness has prevailed without certificates from reputable physicians. The rigid enforcement of this proper rule has not only spared our schools much actual danger, but has allayed the apprehensions of parents in regard to the same.

Absences from causes other than illness have not been numerous. Most children enjoy their school life and go willingly. There are within the limits of this division perhaps a score of boys who are truant-players. I know all the cases, and do not know a single one in which the fault is not mainly with the parent. The boy is sent to school but does not go, and the father has not learned how to make him go. Fortunately for the boy, he sometimes finds in his teacher a woman of long suffering and sympathy. She is told to "beat him" by some weak mother, or by an angry father to "cowhide him," but she knows a better way.

I incline to the opinion that not the least of the evils of the half-day system is the incentive to truancy it affords. By this I mean that pupils belonging to afternoon schools are often induced to remain at home by the fact that their little neighbors of the morning schools are at play. If all pupils had the same school hours there would be fewer playmates on the streets for would-be truants.

DISCIPLINE.

Many agencies conspire to influence favorably the discipline of our schools. Every advance in intelligent teaching, in attractive methods of presenting subjects of study and in stimulating the child to varied activities, begets a corresponding advance in that control over large bodies of children which we call discipline.

There is a direct ratio between the careful plan, preparation, and mental equipment which the teacher takes into the school-room each day, and the ease with which she controls her school that day. She who has the temerity to go empty-handed into the presence of her pupils, comes out of the struggle at the close of the day pale, nervous, and despairing, while her wiser neighbor retires with the flush of victory in her face.

The schools in this division whose discipline is not satisfactory are invariably those in which the teaching is inferior. I think, too, that the pupils' surroundings have much to do with school discipline. The attractive and healthful school buildings which are being multiplied year by year are helpful to the teachers in securing a better public spirit among pupils. Our beautiful school-rooms enhance the pupils' self-respect and furnish incentives to gentility which the old time basements and stables did not afford. In fact it may now be said that the most serious breaches of good order on the part of school children do not take place in school-rooms or on school premises, but occur while pupils are going to or returning home from school.

It is then that profanity, cigarette-smoking, and offenses against property are most frequent. While it is true that the rules of the board provide penalties for such misdemeanors they are extremely difficult to enforce, for the pupils have in reality passed beyond the domain of the teacher into that of the policeman.

In this connection I desire to express the hope that the bill presented to Congress last session forbidding the sale of cigarettes to minors, which

I believe had the indorsement of yourself and all school officers and teachers, may again be urged upon our legislators.

INDIGENT PUPILS.

Owing to the large number of pupils reported by the teachers as "indigent" in the sense of not being able to furnish the necessary text books, I last fall instituted a detailed inquiry into each case with the following results :

| | |
|---|-----|
| Father dead | 126 |
| Father living, but not supporting family | 20 |
| Father out of employment | 48 |
| Father employed, but doing ordinary laboring work | 47 |
| Total | 241 |
| Whole number of applicants for books | 308 |

This left sixty-seven cases in which the father was engaged in any fairly remunerative occupation. Of these forty-three were mechanics on small wages, and in many instances frequently laid off. I did not ascertain the precise grounds on which the children of these persons who were earning wages were supplied with books, but I am convinced that in nearly every instance the teacher had used her discretion wisely. In many instances there were as many as five children in a family attending school. School books are costly. They are in fact the most expensive of all books, for they must soon be thrown aside, and for permanent library use are of little value.

To supply from three to five children with complete sets of text-books is a considerable item of expense. If the parent can not afford to buy them they ought to be loaned by the District, for no child should go without schooling for the want of books. In some cities, notably Philadelphia, all the text-books are supplied from public funds. They form a part of the plant. They are put in the category with desks, blackboards, chalk, and other appliances. Another plan, as in Baltimore, is to tax each parent a small sum, and supply all the books. It seems to me we have the most reasonable as well as the most economical method. It is to help only those who can not help themselves.

In this division about 6 per cent. of all the pupils can not buy the needful books. We furnish them. These three hundred pupils who can not buy books are the ones who need them most, for in some of their homes a book of any sort is a great rarity, and so is likely to be a great boon.

THE TEACHING.

The printing of a course of study at the beginning of the school year aided the teachers in understanding their own grade-work, its relations to other grades, and the scope of the whole. This gave better teaching from the start. Many things that had not been fully understood during the transition period were made clear.

For this reason the work of the past year showed a marked advance on that of the year before.

Reading.—I may say comprehensively that the effort in all grades has been, first, to lead pupils to discover for themselves the *thought* which the written or printed page is meant to disclose, and then to call correctly the words which convey it.

When this has been done children have been taught to read ; but to accomplish it requires in the earlier grades more time, patience, and skill than any other work of the school-room. The first part of this

process has been admirably done. Our primary teachers have been untiring in their efforts to make the thought in the written sentence pre-eminent. The results obtained in the second part of the reading process can be improved by persistent drill in the elementary sounds. By this I do not mean necessarily the use of arbitrary symbols representing sounds, involving a change of type, though I think it may be conceded that the sound type helps the child materially to the acquirement of new words—considered merely as words.

Ought we not to get as satisfactory results in word-calling by careful drill in the chief sounds which are used in the structure of spoken words, with script or common print, aided maybe by a discreet and sparing use of the more necessary diacritical marks and by grouping words by their analogies? Certainly the child will never learn to pronounce, unaided, a single new word until he knows the powers of the letters.

Of the reading in the higher grades this may be said: As to subject-matter it is definite in its purpose, the pupils reading a great deal in earnest search after the essential facts of history or geography. We do no purely elocutionary reading. It is all supplementary, and in this lies its chief merit. Oral reading is thus made tributary to the information of all who hear, and the sentence, paragraph, or page is viewed in its relation to the subject it supplements and not as an isolated reading lesson.

Number.—The teachers of the first three grades followed with much care and intelligence the steps indicated in the printed manuals. Pupils were led to see objects in all the relations suggested, and this development of numbers, as it proceeded step by step, was applied in practical problems. Some of these were given by the teacher, and others invented by the pupils.

If there is any criticism to be made, it is that the results of each step as developed were not fastened upon the memory by repetition. But perhaps this is not a fault, and had better be let alone. At any rate it insures the teacher against the charge that things not understood are memorized.

From the fourth grade up the work in arithmetic covers, in the main, fractions, denominate numbers, and percentage. Here the course is only suggestive and leaves much to be wrought out by the judicious teacher. I think with few exceptions the teachers have faithfully carried out the spirit of your instructions with quite uniform success. Fractions were first seen as parts of things and their combinations shown without the use of rules. Much and varied oral work was done. Denominate numbers were applied to practical things, such as measuring surfaces for carpeting, papering, and plastering, and measuring solids for building walls, excavating, etc., together with various problems in buying and selling.

Percentage was taught orally at first.

In the problem work the use of reasonably small numbers was encouraged and mere arithmetical puzzles eschewed, the aim being a clear understanding of relations and processes, and accuracy and facility in figures.

The question whether too much school time is given to arithmetic is likely to be answered by the demand (*a*) of the various forms of hand training and (*b*) of elementary science study for places in the curriculum.

General F. A. Walker, a distinguished member of the Boston school committee, says: "I do not hesitate to say that some of the new subjects of study (referring to the elements of physical geography, physiology,

and physics), if properly pursued, will not only educate to active exercise of the powers of observation, will not only cultivate the power of generalization, will not only afford excellent practice in reasoning in general, but will also create the habit of continuous attention as well as or even better than mathematics," and thinks that "arithmetic should be restricted to that amount which is needed to give facility and accuracy in ordinary numerical operations."

Geography.—The character of the work in this subject as pursued by the best representative teachers of the several grades was intelligently shown in the display which formed a valuable part of our industrial exhibition last spring. While this exhibit of course showed the work of the best teachers, it was nevertheless an honest index of the way in which geography was being taught in all the schools, with varying degrees of success by the rank and file.

This fact renders unnecessary here any extended description of the work that has been done by the teachers of this division. It is sufficient to say that no teacher who will present the facts of geography after the fashion indicated in this exhibit, using with discrimination the appliances there found, will go far wrong.

The only branch of the subject which may be said to be somewhat neglected is that of structural geography. This, as the basis of all after geographical study, ought to receive more attention.

Language.—It is impossible to speak of this study except in its relations to every other. The most hopeful feature of all our language teaching is that it is recognized as inseparable from the proper presentation of any other subject of study. Therefore, correct oral expression is insisted upon in every spoken sentence, and, better still, the teacher finds an unequivocal proof that the child is thinking in the fact of his ability to write his thoughts with clearness and precision.

Our present theory of language teaching implies incessant writing. But it makes the thought the motive of all writing as of all speech, simplifies composition, and robs it of its terrors by making it the natural expression of what the child knows. It requires ceaseless vigilance in the teacher to see that no error of structure, form, spelling, or the use of capitals passes uncorrected by the writer. It gives the pupil a keen eye for choosing the salient points of a paragraph or a page when reading with a view of reproducing the author in different words. It demands scrupulous attention to the niceties of language in stating a problem or answering a question in arithmetic; in describing a river basin, a cattle ranch, or a coffee plantation in geography.

It insists upon a logical order of topics when writing a brief biography of Christopher Columbus or Abraham Lincoln, and a due subordination of clauses when tracing the circulation of the blood or following the stages of digestion.

In short, it suggests a comprehensive and every-day study of language, which, if pursued faithfully, ought to yield such results as to make the honest teacher wonder how she ever suffered all her instruction in English to be bounded by the lids of a single text-book.

MANUAL TRAINING.

The utility of manual training as an educational force is no longer discussed.

The question now is, what forms it shall assume when engrafted upon the common-school course.

The already existing work in drawing, molding, and paper-folding

was greatly enlarged and improved, and stick-laying, model-making, sewing, cooking, and carpentry were added. I have yet to meet any intelligent parent disposed to disparage any of these forms of hand-craft.

In this division there were fifteen classes of girls in cookery, each class consisting of fifteen pupils selected from the seventh and eighth grades, taught by Miss H. E. Sloat, whose diligence and enthusiasm are to be commended. Having watched the progress of this experiment through the year with some care I am prepared to say that no part of these girls' school time could possibly have been better employed than were the hours given to the acquirement of this indispensable household art.

One hundred and eighty boys, in classes of twelve, under the guidance of Mr. W. N. Weston, received their first lessons in carpentry.

I give below extracts from the written opinions of the eighth-grade teachers whose schools most largely contributed to the manual-training classes.

Mr. J. J. Chickering says :

The manual-training work has in no instance, as far as I have been able to judge, interfered with the other school work of my pupils. * * * I consider it as one of the school studies, and allot time to it accordingly.

Mr. J. T. Freeman says :

They experience a satisfaction in doing something that approximates closer to their idea of what is accomplished in the busy world beyond the school-room. As a natural result of all this, discipline is more easily enforced.

Mrs. E. A. Hilton says :

I now regard the break which these classes occasion in the routine of the school-room as a real aid to our work. The relief which the change gives to mind and body brings the pupil back with renewed zeal and industry. When we add to this advantage the acquirements that are made in cooking and house-keeping, too much can not be said in favor of industrial education as now pursued in our schools.

Miss N. M. Mack says :

It gives the pupils an idea of something outside of their books, makes them more observing, removes many of the false notions which girls have regarding house-work, and is a pleasant change for them in their daily work. I found no loss in the regular standing of the pupils last year.

Sewing also was taught, during the last few months of the year, in the fourth, fifth, and sixth grades to about five hundred pupils, in ten different schools. This pleasing and useful form of manual work instantly commended itself to pupils, teachers, and parents alike. In another year I hope to see it practiced in all the girls' schools, and extended to include the homely arts of darning and patching.

I recommend the establishment of another wood-working shop and cooking school in the southeastern section of this division.

Before closing I desire to refer briefly to the services of two of our most faithful teachers, whom death has recently removed.

Miss Jessie Z. Cox, of the third grade in the Blair school, died just before the close of the school year, and Miss Mary C. Kelly, of the fifth grade in the Brent school, shortly after.

Both were graduates of the Washington Normal School.

Miss Cox, though evidently suffering from the physical ailment which afterward terminated in her death, was an intelligent and painstaking teacher. Her spirit was patient and her manner gentle and attractive.

Miss Kelly took high rank as a teacher early in her career. Her school-room was a very bee-hive of alert brains and busy fingers. An atmosphere of genuine child feeling was there, but it was neither frivo-

less nor idle. It was resolute, intelligent, indefatigable. All her work had a method and an aim.

Permit me to say in closing that for any degree of success I have had in the performance of my official duties I am indebted to the teachers, whose co-operation has been prompt and willing; to Trustee J. W. Washburn, whose efforts for the advancement of the schools of East Washington have always been earnest and well directed; and to parents, whose co-operation has been invaluable.

Very respectfully,

A. T. STUART,
Superintending Principal.

TO W. H. POWELL,
Superintendent of Public Schools.

REPORT OF THE SUPERVISING PRINCIPAL OF THE FOURTH DIVISION.

WASHINGTON, D. C., June 30, 1888.

DEAR SIR: I have the honor to submit the following report of the affairs, progress, and present condition of the schools of the fourth division for 1887-88.

The past year has witnessed gratifying improvements, and it affords me the utmost satisfaction to be able to report the general condition of the schools to be better than it has heretofore been.

From familiar saying, superintendents, "To educate is to cultivate"—not a part but the whole; not to stimulate one faculty of the mind at the injury of the others, or to overtax the mind at the expense of the body, otherwise the balance is disturbed—has been recognized by faithful teachers.

At no previous period I remember have our citizens had stronger reasons for looking upon their public schools or stronger inducements to extend to them their fostering care. A steady, true, and, I believe, genuine advance and improvement is observable.

ATTENDANCE.

It will be seen by reference to my monthly reports, on file in your office, that the average daily attendance, as well as the average percentage of attendance and punctuality, has been better than they were the preceding year; but it is saying what none will dispute, that much the larger part of absence and tardiness from school is entirely unnecessary. Every one so familiar with life in Washington, or in any other city where transient citizens are not employed, has often observed great numbers of children of school age playing in the streets or in vacant lots during the hours when the schools were in session.

Until public opinion becomes greatly changed in all our cities, so that all our people shall understand that not only must schools be supported with money, buildings erected, and teachers employed, but that children must be sent to them punctually and with regularity, our system of public education will come far short of accomplishing its full mission.

DISCIPLINE.

I have been much pleased with the discipline of the schools during the past year. The relations between pupils and teachers, with few ex-

ceptions, have been all that could be desired. To all appearance the children have regarded their teachers as those to whom they could give their confidence and affection, and they have seemed willing to accept dictation from them with promptness and cheerfulness.

The teachers, on the other hand, have for the most part exhibited that spirit of large hearted generosity in dealing with the children that disarms opposition at the outset, and stimulates all that is noblest and best in the child's nature.

I have been gratified to note the frequent visits of teachers to the homes of the children, and regret that the number of these visits is not a matter of record. In cases of unsatisfactory deportment, attendance, or scholarship, a personal interview at the home is worth vastly more than any amount of correspondence. We have had the earnest co-operation of most parents in the discipline of pupils disobedient to lawful authority. During the year many visits have been reported from the several schools. Many parents show their interest in their children and in the school by frequent visits. These visits increase the efficiency of the schools much more than most parents realize.

We hope to have and shall strive to secure a much larger number of visits the coming year.

STUDIES.

Reading.—It is gratifying to find a fair degree of improvement in the character of the reading and in the methods of teaching this important branch of instruction. In some instances there has been a tendency to treat reading simply as an exercise in the proper pronunciation and distinct enunciation of a series of words. The great body of teachers have, however, looked on this study as the careful repetition of the language of others by those who have mastered the thoughts intended to be expressed. The result is that more natural reading is now heard than formerly because the pupils are, in most cases, taught to read understandingly.

Spelling.—In my frequent inspections in this subject many schools distinguished themselves by their success, and it is but just to the teachers of such schools to say that the success was almost universally the result of an intelligent method of instruction. The thoughtful teacher economizes both time and energy by noting carefully the words that are troublesome to the pupil and then teaching such words. Constant attention is paid by the teacher that the pupils observe carefully words of a miscellaneous character, embracing the names of articles of food, clothing, the household, and many others, which are employed in ordinary conversation.

Arithmetic or numbers.—The general results in arithmetic are very satisfactory, and in many schools leave nothing more to ask for. The rapidity and accuracy of work and the readiness and clearness of explanation in such schools are much to be praised.

Language.—Substantial progress has been made in this branch of instruction. The traditional methods once prevalent are quite generally abandoned, and the teachers are advancing with greater confidence and increasing success in the more rational processes demanded. The correction of common errors of speech receives a larger share of attention, care being taken to have the example given conform to the attainments of the pupils. Great improvement has been made in most schools in composition. Some schools, whose work last year was indicative of a lack of proper attention and method, gave exhibition this year of considerable advancement.

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Geography.—The work in geography is fairly well taught. It is gratifying to report marked improvement the last half of the school year. Teachers have emancipated themselves to a great extent from the use of the text-book during recitations and teach almost entirely by topics. Suggestive questions are given for investigation, and a genuine spirit of inquiry has grown up in most of the schools. I look for great advancement the coming year.

History.—This important branch of instruction has been better taught than in former years, a slight improvement over that reported for last year. It is to be earnestly hoped, and present tendencies render reasonable the expectation, that greater advancement may be looked for the coming year.

Penmanship.—Much writing has been done, and the improvement is satisfactory.

Music and drawing.—The results of the year's work in these important studies are very satisfactory, of which you have been duly informed by the special teachers.

MANUAL TRAINING.

I think the industrial education, which was introduced into the seventh and eighth grades, boys' schools, at the opening of the school year, quite as beneficial in the cultivation of the intellect as the pursuit of the studies in the literary department. It would almost seem to have revealed to us already that the proper method of training the intellect is to join manual work to the teachings of the school. I think these boys are more capable of understanding the oral teaching, and they understand better what they read. Their minds are more reflective and receptive by the fact that they have depended more upon themselves, and put into operation the knowledge that they have before acquired in the schools.

One hundred and twenty pupils took this manual training. The instructor was Mr. H. B. Sawyer, whom I consider very efficient.

Below are copies of the statements of different teachers:

Mr. R. L. Johns says:

The effect of manual training is very good, nor does the time spent in the shop materially interfere with the other work of the school. It has a tendency to make the pupils more careful and thoughtful, thus striking at what seems to me to be the radical defect of a boy's character. If the interest manifested by the boys be a good test, and I think it is, the usefulness of manual training is established beyond question.

Mrs. M. E. Martin says:

Manual training seems to develop carefulness and accuracy in all work.

Mrs. S. E. Wise says:

I consider the manual-training school an aid to a boy's intellectual improvement. It keeps boys longer in our schools, promotes punctuality, and results in closer application to the regular studies.

Miss S. A. Langley says:

Practice in the training-school helps to secure accuracy in other hand work, and serves to work off some of the surplus energy peculiar to boys.

Miss C. L. Wilson says:

The manual-training school is a great advantage to a boys' school.

SEWING.

The introduction of sewing in the fourth, fifth and sixth grades during the year I think proved a success. As I have a few statements of teachers of different grades, I will copy their language:

Miss H. L. Davis (fourth grade) says:

When sewing was introduced into my school I thought it might possibly interfere with the regular studies. After a year's trial I find that it has not only been a success but a recreation to teacher and pupils. Many parents expressed themselves as highly gratified with the success of this very important work.

Miss S. E. Halley (fifth grade) says:

The introduction of sewing into the schools has proved a good thing, judging from my school.

Miss F. M. Moore (sixth grade) says:

The introduction of sewing into my school has proved a success. It is liked both by pupils and parents. The hour is looked forward to as a means of pleasant recreation, and the time taken is not missed from the ordinary work of the school.

In closing this report, I wish to express my gratitude for the uniform kindness, courtesy, and consideration shown by you, also, my appreciation of the faithful, conscientious, and painstaking work of the teachers. In full recognition of many courtesies, both personal and official, received at the hand of Maj. R. A. Fish, trustee of the fourth division, this report is respectfully submitted.

ISAAC FAIRBROTHER,
Supervising Principal.

Mr. W. B. POWELL,
Superintendent of Public Schools.

REPORT OF THE SUPERVISING PRINCIPAL OF THE FIFTH DIVISION.

WASHINGTON, D. C., June 30, 1888.

MY DEAR SIR: In making, to you, my report of the condition of the schools of my division for the year ending this date, I would say that good work has been done throughout, and we enjoy the satisfaction of seeing ourselves on a somewhat higher plane of advancement than at the close of last year.

Almost without exception the teaching in this division has been excellent, which I think is due, in a great measure, to the interested search on the part of the teachers for new ideas and better methods. There is no grade which has lost ground in any study, while in many there is marked improvement. The increasing strength on the part of the teachers of the lower grades is especially perceptible.

The attendance during the year has not been so good on account of sickness, there having been scarlet fever, measles, and other diseases of children among our pupils.

We have much enjoyed the absence of half-day schools this year, and earnestly hope that they are a thing of the past.

The difficulties of discipline seem to be diminishing year by year, and yet it would scarcely be reasonable to expect great improvement.

Our grade meetings have been kept up, and they have proven of much value.

The use of reference books in the higher grades is increasing to an admirable extent, and this, with much collateral reading, is making a good showing in the brightening intelligence of the pupils.

The great disadvantage of improperly shaped double seats and desks is felt still, in some of my schools, and it is to be hoped that the time may speedily arrive when they will be replaced by single seats of modern pattern.

In specializing, I desire to speak of the great improvement in the reading, number work, and writing in the lower grades as well as in

language, and of the advancement made in the upper grades in the methods of teaching history, geography, arithmetic, and composition, the more natural and interesting means having been used and the system of hard digging and memorizing having been done away with.

I am grateful to the earnest, hard-working teachers of my division for their thoughtful deference and cordial co operation at all times, and to yourself and our trustee, Mr. W. W. Curtis, for great indulgence and willing assistance.

Very respectfully,

B. T. JANNEY,
Supervising Principal.

Mr. W. B. POWELL,
Superintendent of Public Schools.

REPORT OF THE SUPERVISING PRINCIPAL OF THE SIXTH DIVISION.

WASHINGTON, D. C., June 30, 1888.

DEAR SIR: In compliance with your request I submit the following report:

In my judgment the schools of the sixth division have made considerable improvement during the session just ended. A better understanding and a broader sympathy seem to have existed between the teachers and schools of the county and those of the city than heretofore. The effect has been very beneficial to the educational interests of the county. We are now enjoying many of the advantages possessed by the city schools, but until the city, with her streets and avenues, and railroad facilities, etc., extends over the entire district, there will continue to exist many difficulties in the way of teaching and governing our county schools.

The Mount Pleasant, Mott, Anacostia and Hillsdale schools, being well graded and enjoying every advantage that is found in the city, are fully prepared to do justice to every child from the first to the eighth grade, inclusive, except that these schools, like many others in the county, are crowded to overflowing.

The following statement shows the grading of the schools:

| Grade. | Number of schools. |
|---|--------------------|
| First grade..... | 5 |
| Second grade..... | 4 |
| Third grade..... | 3 |
| Fourth grade..... | 3 |
| Fifth grade..... | 1 |
| First and second grades..... | 6 |
| First, second, and third grades..... | 3 |
| First, second, third, and fourth grades..... | 4 |
| First, second, third, fourth, and fifth grades..... | 1 |
| First, second, third, fourth, fifth, and sixth grades..... | 1 |
| First, second, third, fourth, fifth, sixth, and seventh grades..... | 3 |
| Second, third, and fourth grades..... | 1 |
| Second, third, fourth, fifth, and sixth grades..... | 1 |
| Second, third, fourth, fifth, sixth, and seventh grades..... | 1 |
| Third and fourth grades..... | 4 |
| Third, fourth, fifth, and sixth grades..... | 2 |
| Fourth and fifth grades..... | 1 |
| Fourth, fifth, and sixth grades..... | 1 |
| Fifth and sixth grades..... | 3 |
| Fifth, sixth, and seventh grades..... | 3 |
| Fifth, sixth, seventh, and eighth grades..... | 2 |
| Sixth, seventh, and eighth grades..... | 3 |
| Seventh and eighth grades..... | 2 |
| Total..... | 59 |

It will be observed from the above statement that there are 16 schools of one grade only, 16 of two grades, 8 of three grades, 12 of four grades, 2 of five grades, 2 of six grades, and 3 of seven grades.

The most of the single grade schools are near the city; those partly graded are in buildings having two or more schools. Those having many grades are located near the boundary of the District.

ENROLLMENT AND ATTENDANCE.

The following statistics are taken from the annual reports of teachers:

| | White. | Colored. | Total. |
|--------------------------------|--------|----------|--------|
| Whole enrollment | 1,519 | 1,756 | 3,275 |
| Average enrollment | 1,177 | 1,381 | 2,558 |
| Average attendance | 1,028 | 1,236 | 2,264 |
| Percentage of attendance | 87 | 90 | ..... |

The whole enrollment was 75 greater than last year's enrollment. I regard the percentage of attendance as large for this division, in view of the usual difficulties in the way of attendance.

There were 61 teachers employed, including the supervising principal; 30 white and 31 colored.

Sixty-three eighth-grade pupils were enrolled—27 white and 36 colored. Of this number, 7 white and 18 colored (26 per cent. of the white and 50 per cent. of the colored) finished the studies of the grade and were recommended for the high schools.

The average enrollment per teacher based on the whole enrollment, was 55, on the average enrollment was 43, and on the average attendance was 38.

DISCIPLINE, INSTRUCTION, AND SCHOLARSHIP.

The discipline of the schools, as usual, has been very satisfactory, no cases having occurred beyond the teachers' control. Teachers have exhibited more tact in dealing both with patrons and pupils, the effect of which has been seen in better government and in higher scholarship.

The following table shows the number of pupils dismissed, number of cases of corporal punishment, and cases of tardiness in both white and colored schools:

| | White. | Colored. | Total. |
|---------------------------|--------|----------|--------|
| Dismissed | 5 | 4 | 9 |
| Corporally punished | 8 | 29 | 37 |
| Cases of tardiness | 2,423 | 1,323 | 3,746 |

The number of pupils dismissed was 6 less than last year; the number of cases of corporal punishment 9 less, and the number of cases of tardiness 662 less. It will be observed that a decided improvement has been made. In the early supervision of the schools, beginning in September, 1876, it was not unusual to have to report two or three times the above number of cases of tardiness and from two hundred to three hundred cases of corporal punishment during one session, with about two-thirds of the present enrollment. It appears that a small number

of teachers still think it necessary to inflict corporal punishment, but I trust it will soon be numbered with the things of the past. After making all proper allowance for disagreeable weather, bad roads, long distances, and sickness, the number of cases of tardiness is still too large. Parents should willingly co-operate with the supervising principal and teachers in their efforts to abate the evil.

The table below gives the approximate standing of the schools at the close of the school year, as determined by an oral examination conducted by you and myself, and by my personal observation and examination during the year:

| | Excellent. | Good. | Fair. | Poor. |
|-------------------|------------|-------|-------|-------|
| Discipline | 46 | 10 | 2 | 1 |
| Instruction | 47 | 10 | 2 | ..... |
| Scholarship | 35 | 20 | 4 | ..... |

Total number of schools 59.

In trying to secure the above favorable results I am not unmindful of the fact that I have received from you much valuable assistance and a full and hearty co operation.

I am indebted to Miss E. S. Atkinson, principal of the Washington Normal School, for visits to several schools and for many valuable suggestions to myself and teachers.

Mrs. S. E. Fuller has made a tour of the county and given the children personal instruction in clay-molding, modeling, and drawing. In addition to this she has held teachers' meetings at Mount Pleasant, Benning, Anacostia, and Hillsdale, as central points, for the purpose of giving instruction to the teachers in the above named subjects, the good results of which were noticeable at our late school exhibit.

TEACHERS AND THEIR WORK.

The teachers as a body are well qualified for their duties: twenty-two of them being graduates of normal schools, eleven of the Washington Normal School, seven of the Miner, and four of other normal schools. Many of the other teachers are graduates of academies and colleges. With few exceptions they seem to be devoted to their work, several of them manifesting much enthusiasm. We anticipate additional help from the normal schools next session. With such intelligent help our success will be assured. I have observed with much pleasure the disposition manifested by the teachers to act promptly upon all suggestions and to cheerfully obey all orders emanating from superior officers. In order to improve in methods of teaching and governing the teachers generally have availed themselves of the privilege granted by the rules of the board, of visiting other schools in the county and city two or three times during the session. In all the work of the schools the teachers have been encouraged to investigate and experiment for themselves, and full opportunity has been given for each one to develop his individuality in teaching. At least seven additional teachers will be needed next session.

HALF-DAY SCHOOLS.

For want of additional teachers and rooms, half-day schools had to be taught at the following places:

| Buildings. | Grade. | Number. |
|---------------------|--|---------|
| Tennallytown | First, second, third, and fourth grades..... | 2 |
| Brightwood..... | do | 2 |
| Mount Pleasant..... | First and second grades..... | 2 |
| Columbia Road..... | do..... | 2 |
| Mott building..... | do..... | 2 |
| Soldiers' Home..... | First, second, and third grades..... | 2 |
| Anacostia..... | First, second, third, fifth, and sixth grades..... | 3 |
| Hillsdale..... | First and second grades..... | 2 |
| Total ..... | ..... | 17 |

The half day school is very unpopular in the county, as the distance to school in many instances is so great that parents are afraid to trust their little ones by themselves. Most parents prefer to have their small children remain at school during the entire day, that they may have the protection of the older pupils on their way to and from school.

NIGHT SCHOOLS.

Night schools were opened in the Mott and Hillsdale buildings last fall, employing two teachers in each building, a principal and an assistant. I believe they were well patronized. The schools are valuable to those who are engaged in other occupations during the day and who find but little time for study or reading. Their moral as well as intellectual influence can not be overestimated. I hope that others may be established next fall.

MANUAL TRAINING.

Manual training has not yet been introduced into these schools, but I have been informed that the higher grade boys will be permitted to attend such schools in the city next session. I also learn that sewing is to be taught the girls of the fourth, fifth, and sixth grades in several suburban schools.

I think the time is not distant when manual training can be established to advantage at two or three places in the county.

SCHOOL ACCOMMODATIONS.

The following table shows the school accommodations of the sixth division:

| Name or location of building. | Buildings owned or rented. | Rooms owned. | Rooms rented. |
|-------------------------------|----------------------------|--------------|---------------|
| Conduit road..... | Owned..... | 1 | |
| Chain Bridge road..... | do..... | 1 | |
| Tennallytown building..... | do..... | *4 | |
| Grant road..... | do..... | 2 | |
| Brightwood..... | do..... | 2 | |
| Do..... | do..... | 1 | |
| Mount Pleasant..... | do..... | 4 | |
| Columbia road..... | do..... | 2 | |
| Mott building..... | do..... | 6 | |
| Prescott building..... | Rented..... | | 2 |
| Soldiers' Home..... | Owned..... | 2 | |
| Fort Slocum..... | do..... | 1 | |
| Bunker Hill road..... | do..... | 1 | |
| Queen's Chapel road..... | do..... | 1 | |
| Hamilton road..... | do..... | †4 | |
| Benning Station..... | do..... | 2 | |
| Benning road..... | do..... | 2 | |
| Anacostia road..... | do..... | 1 | |
| Burrville..... | Rented..... | | 1 |
| Anacostia building..... | Owned..... | 6 | |
| Hillsdale..... | do..... | 6 | |
| Giesboro..... | do..... | 2 | |
| Hamilton road..... | do..... | 4 | |
| Good Hope Hill..... | Rented..... | | 1 |
| Total..... | ..... | 54 | 4 |

* One room unoccupied.

† Two rooms unoccupied, one of which is unfinished

All of the occupied rooms in the above buildings are in good condition except two basement rooms in the Hillsdale building, which were condemned in my last report. There are two one room buildings unoccupied not enumerated in the foregoing; one on the Grant road and one on the Brentwood road. These buildings were abandoned several years ago, the schools being removed to more favorable localities.

Since making my report of June 30, 1887, the Tenallytown building has received an additional story of two rooms. One more room has been added to the Columbia road building and two more to the building on Hamilton road. Additional school accommodations are needed at the Mott, Prescott, Soldiers' Home, Benning, Anacostia, Hillsdale, Good Hope, Columbia road, and Benning road buildings.

The schools near the Soldiers' Home need special attention, as the building is an old frame structure, entirely inadequate to the wants of the schools, and is located near the national cemetery, in which about 15,000 soldiers are interred. There are other valid objections to the present location. I trust that Congress may be induced to give us all school buildings needed, and thus accommodate our rapidly growing school population.

SANITARY CONDITION OF SCHOOL BUILDINGS.

The condition of the school-houses, out-houses, and surroundings with two or three exceptions, is good, in most cases excellent. Many of the teachers seem to have exercised great care in everything pertaining to their duties in this respect, while a few have exhibited a want of proper general oversight. The health both of teachers and pupils has been as good as usual.

The ventilation of school-rooms is generally such only as can be secured by the raising and lowering of windows and the opening of doors and transoms. This method of ventilation is neither satisfactory nor safe. In four new buildings lately erected ventilating shafts, which act also as chimneys, have been built. This is some improvement over windows and doors alone. Some other means should be devised to improve this condition of things in the present old buildings, and in the future more attention should be given to this subject in the county.

While the janitors have received but small compensation for their services, they have generally done their work well.

SCHOOL LIBRARIES.

Our schools have been giving some attention to libraries for several years past. Entertainments and exhibitions have been held at many of the school-houses for the purpose of raising funds to purchase school libraries in addition to donations of books by friends. This has resulted in the accumulation of about 1,200 volumes of suitable books for the different grades of pupils. Several schools loan these books to their parents and friends. Thus there have been many small circulating libraries benefiting both parents and children.

THE PAY OF PRINCIPALS.

On the 13th of December, 1887, the school board passed a resolution defining the position of principals in the county schools, and fixing the salaries to be paid, making the maximum \$1,200 and the minimum \$900. This was subsequently approved by the District Commissioners.

and an appropriation was asked to meet this demand, but I am sorry to learn that the condition of the appropriation bill is such that the principals will, in all probability, get no increases next year.

The sixth division has suffered much heretofore, owing to the fact that a discrimination in salary has existed between the eighth grade male teachers of the county and those of the city. It will continue to work to the disadvantage of our schools until the matter is properly adjusted. In schools of all other grades the teachers are "paid as well as those in the city who do corresponding work."

SUPERVISION.

The proper supervision and inspection of 59 schools, divided into about 165 classes and extending over the entire District beyond the limits of the city, has necessarily required great labor and given much anxiety, but the work has been performed to the best of my ability and with what success I leave to you and the public to judge. Frequent teachers' meetings have been held at the Franklin building, presided over and addressed by you, at which a free discussion of methods was invited and an opportunity given for a free interchange of opinion respecting school work. In addition to these meetings we have been invited by you to attend others held for the city teachers. Many teachers have availed themselves of this privilege. During my frequent visits to the schools for inspection, suggestions have been given relative to the purposes of the work and the best methods of teaching and governing, in addition to which the teachers have been otherwise aided and encouraged in their work.

I cheerfully acknowledge the valuable support and hearty co-operation you have accorded me in my work. I fully appreciate, also, the great kindness always shown me by the people of the county generally. In this connection I take great pleasure in stating that the Hon. W. B. Webb, Commissioner of the District of Columbia, has honored us by visiting and inspecting all of the schools, far and near, and has stimulated us in our work by dropping words of advice and encouragement.

STUDIES.

Reading.—The reading in the first, second, and third grades has been much better than in the past year, but the fourth grade still experiences great difficulty in reading from the Fourth Reader. I regard this reader as entirely unsuitable for this grade, and believe that much of the poor reading in the higher grades results from this fact. The use of the supplementary reading-books and more general reading outside of the regular school readers has had the effect of making better and more intelligent readers in all the grades. While the reading has been better, I have noticed the prevalence of much indistinct utterance during recitations, which we will endeavor to correct in the future.

Spelling.—This subject has been taught in all the grades in connection with daily written work. The forms, uses, and meanings of words have received due attention. The aim has been, in this study, to develop thought, as in other studies. At proper times suitable words have been selected from various sources and exercises conducted orally. I believe, as a rule, no word has been taught that the child does not or will not need in pursuing his studies. The results have been satisfactory.

Penmanship.—The instruction given to the teachers early in the fall, to practice much on blank paper in movement drill and on the forms of the letters and figures before taking up the copy-books, has generally been complied with. As a large quantity of written work has been done in connection with the copy-books and drill movements, the children have acquired a free use of the pen and have made satisfactory progress. There are not sufficient pains taken in some of the schools to secure proper position during an exercise in writing. It would be well to have drill work precede the regular copy-book exercise during at least the first half of the session.

Arithmetic or number.—The lower grades handle numbers with great facility. Such abstract, denominate, and fractional numbers as formerly puzzled the brain of some of the higher grades can now be readily solved by the lower grades.

The first and second grade children can make and solve problems involving the smaller fractions, such as one-half, one third, one fourth, etc., with wonderful ease.

Since the introduction of objective work involving fractions into the lower grades two years ago I have noticed that more intelligent work has been done in the higher classes.

Pupils in all the grades have acquired the habit of reasoning more deliberately and logically, and can and do master ordinary practical business problems with much greater ease than ever before. The children are encouraged to make their own problems and to give written as well as oral answers.

The principles of percentage, which were but seldom mastered by a seventh or eighth grade pupil, are now generally understood, and what was once dark and distasteful is now made clear and pleasant.

Geography and map drawing.—Very little attention has been given to geography in a few of the schools near the border of the District, as they are ungraded, and it was thought that the time could be more profitably spent in the study of arithmetic, language, and penmanship. A few teachers still pursue the old method of asking only such questions as are found in the book; some have taught principally by topical outlines, while others have taken up the subject more elaborately, and have required the pupils to construct outline maps representing the sections studied, and to investigate for themselves and to get information from various sources. They are encouraged to obtain and to bring to the school-room products of those sections of the world under discussion. Imaginary journeys are taken to leading countries, cities, or places, everything of special interest being noted. No map drawing has been done other than that needed to illustrate the subject of the recitation.

History.—This subject has been taught in twelve schools in this division. The ordinary topical outline method has generally been pursued. Collateral reading in connection with the study of this subject has been recommended and encouraged. In this way the pupil became familiar with many important facts bearing upon the subject not found in the text-book. Several schools have so developed the subject as to make it one of the most attractive and interesting in the course of study. McMaster's history has been used with good results. I am glad to know that a better text-book is to be substituted for Campbell's.

Grammar or language.—Language has received special attention in all the grades during the entire session. It is a fact worthy of mention that in the description of objects and pictures the children have been

able to express themselves with much greater ease and in better idiomatic English than formerly. The writing of compositions has not been as distasteful as in the past, as the pupil usually knows before he begins his work what to write and how to write it.

More care has been exercised to lead the child to see and to give proper expression to what he sees.

Very satisfactory work has been done in the higher grades also.

Outlines of the different parts of speech have been developed by the pupils of most of the schools, touching upon their forms, uses, derivations, and errors to be avoided, from which the subject of grammar has been more intelligently taught and better understood than heretofore.

I trust that the old plan of allowing the child to go through a recitation in a parrot-like manner has passed away never, never to return.

Physics and physiology.—But little has been done in physics, principally for the want of time and proper appliances for development and illustration. Some of the schools have had an exercise once or twice a week, but no satisfactory gain has been made. A good text-book placed in the hands of the children would greatly aid the teacher, especially in our ungraded schools.

The books on the subject of physiology and hygiene, recommended by the board, are in use in all of the schools, and have been read and studied with great profit. From them subjects for composition have frequently been taken.

Music and drawing.—Owing to a multiplicity of grades, and in many cases to a want of ability on the part of the teacher to sing, but little has been done in vocal music. I believe the Mount Pleasant and Anacostia schools are doing very well. These were, I think, the only schools in the county visited by the directors of music.

The only way in which this subject can receive proper attention is by having a director of music for the county.

The improvement in drawing has been as marked as in language or number. The teachers and children have taken special interest in this subject.

Molding in clay in the lower grades has been quite a success. The teachers and many of the children have had personal help in the school room from Mrs. Fuller, and the results have been creditable to both teachers and pupils.

In conclusion, I desire to express my gratitude to the teachers of the sixth division for their hearty and intelligent co-operation, to the trustees for their cordial support and earnest efforts to advance the interests of the schools, and to you for your kind indulgence and courteous treatment at all times.

Very respectfully,

JOSEPH R. KEENE,
Supervising Principal.

Mr. W. B. POWELL,
Superintendent of Public Schools.

REPORT OF THE PRINCIPAL OF THE WASHINGTON HIGH SCHOOL.

WASHINGTON, D. C., *September 30, 1888.*

DEAR SIR: I have the honor to submit herewith the annual report of this school for the year ending June 30, 1888.

Numbers and attendance.

| | |
|---|------|
| Number of pupils re-admitted from previous year | 463 |
| Number admitted at beginning of the year | 486 |
| Number subsequently admitted | 48 |
| Number of withdrawals | 155 |
| Number at close of the year | 832 |
| Whole number enrolled | 997 |
| Average number enrolled | 913 |
| Average number in daily attendance | 878 |
| Percentage of attendance | 95.8 |

Attendance by months.

| Month. | Average enrollment. | Average attendance. | Per cent. |
|-----------------|---------------------|---------------------|-----------|
| September | 942.0 | 930.7 | 98.8 |
| October | 970.6 | 950.5 | 97.9 |
| November | 955.8 | 931.7 | 96.4 |
| December | 944.3 | 901.2 | 94.9 |
| January | 930.0 | 880.0 | 93.0 |
| February | 892.2 | 858.1 | 95.0 |
| March | 888.9 | 842.4 | 94.7 |
| April | 889.5 | 857.4 | 96.3 |
| May | 864.0 | 823.1 | 95.2 |
| June | 839.0 | 806.1 | 96.0 |

The number of pupils enrolled in each class has been: First-year class, 514; second-year class, 293; third-year class, 190.

Table showing growth of the school.

| Year. | Number of teachers. | Average enrollment. |
|----------------|---------------------|---------------------|
| 1882-'83 | 11 | 367 |
| 1883-'84 | 13 | 486 |
| 1884-'85 | 20 | 598 |
| 1885-'86 | 24 | 688 |
| 1886-'87 | 28 | 775 |
| 1887-'88 | 30 | 913 |

Statistics of attendance, 1887-'88.

| | |
|--|--------|
| Year opened with enrollment of | 959 |
| Maximum enrollment (November) | 973 |
| Close of year (June) | 842 |
| Average enrollment | 913 |
| Increase over previous year's average enrollment | 133 |
| Ratio, boys to girls | 3 to 5 |
| Average percentage of attendance | 95.8 |

BUILDING AND ACCOMMODATIONS.

In the report of the trustees for 1882-'83, after the new school building had been occupied for a year, the following statement was made of the character and use of the building:

It is large, commodious, and substantially constructed; is well lighted, heated, and ventilated, and is surrounded by ample grounds.

The number of rooms in the building, their dimensions, and the the use to which they are at present assigned, are herewith given:

| Present use. | Dimension. | Number of rooms. |
|------------------------------------|--------------|------------------|
| | <i>Feet.</i> | |
| Class-rooms | 24 by 27 | 12 |
| Study halls | 32 65 | 3 |
| Drill hall | 32 65 | 1 |
| Exhibition hall | 65 80 | 1 |
| Lecture hall | 27 65 | 1 |
| Laboratories | 24 27 | 2 |
| Room for drawing | 27 65 | 1 |
| Room for drawing | 24 27 | 1 |
| Library | 24 27 | 1 |
| Office | 24 27 | 1 |
| Ante-room to exhibition hall | 24 27 | 1 |
| Teachers' room | 11 27 | 1 |
| Armory | 11 27 | 1 |
| Cloak-rooms | 24 27 | 2 |
| Total | *26 37* | 29 |

*Average.

I have copied this portion of the old report to show by comparison the larger needs and the inadequate accommodations of the present school.

By making use of the ante-room to the exhibition hall and the smaller drawing-room, two new class rooms have been provided on the third floor; the cloak-rooms of both the first and second floors and the armory (a corridor alcove) have also been converted into recitation-rooms, so that there are now sixteen instead of the original twelve. If we reject from the above list the drill hall, library, office, teachers' room, and exhibition hall, we have twenty-four rooms remaining available for recitation work of an average size of 33 by 35 feet. From the number of class-rooms the study halls also must be deducted, leaving but twenty-one rooms for a school of twenty-nine sections of pupils, averaging thirty-four to the section.

The difficulty arising from the crowded condition of the building has been met by dividing the first-year class and holding two half-day sessions of three hours each, the morning pupils attending from 9 to 12 o'clock, the afternoon students from 12 till 3 p. m.

The report of this school for 1886-'87 showed that 150 pupils entitled to admission were unavoidably denied its privileges, except for one-half of each day of the school year. This "hurtful restriction of school privileges" extended during the past year to 398 pupils—200 boys and 198 girls.

We regard as essential to education the opportunity to teach pupils how to study. Any plan of organization which brings student and teacher together only for recitations is a serious drawback to training those under instruction.

Another effect of the increase of the size of the school is an increase in the number apportioned to each teacher for class instruction; such increase in the total of a section necessarily lessens the amount of attention which can be given to each individual.

With the utmost crowding the assembly hall will not contain the entire school when it is desirable to meet for general exercises. The lecture-room and the laboratories are so cramped that the work in natural science, chemistry, and physics is materially restricted.

The school for 1888-'89 will number 1,200. The capacity of the present elastic building is reached. The overflow of the coming year is to

be accommodated in a rented building, at its best a poor expedient. From the table showing the yearly growth it is possible to predict such a future annual increase that an addition to the present structure, with ample class rooms and large working laboratories, is an imperative and immediate necessity.

It is hoped that the honorable Commissioners and the District committee will investigate the present crowded condition of the school and provide for its needs.

INSTRUCTION.

The school offers three courses of study: An academic course, a scientific course, and a business course, the first two requiring a period of two years, and the last three for completion of the prescribed work.

The departmental plan of instruction is pursued, most teachers having but one branch of study. A few have been engaged upon two or more allied subjects.

Three courses of study outlined.

| Year. | Academic. | Scientific. | Business. |
|-----------|--|--|---|
| First .. | English.
History.
Algebra.
Latin.
Physiology. }
Physical geog- } Lectures.
raphy. | English.
History.
Algebra.
German.
Physiology. }
Physical geog- } Lectures.
raphy. | English.
History.
Algebra.
Book keeping and business
arithmetic.
Physiology. }
Physical geogra- } Lectures.
phy. |
| Second. } | <i>English</i> (first half year), <i>his-</i>
<i>tory</i> (second half year).
Geometry.
Latin.
Physics. | English (first half year), his-
tory (second half year), or
chemistry (whole year).
Geometry.
German.
Physics. | English (first half year), history
and political economy (second
half year), or chemistry
(whole year).
Book-keeping and business
arithmetic.
Commercial law and commer-
cial geography.
Physics. |
| Third.. } | Trigonometry and survey-
ing or English.
Latin.
German.
Botany.
Chemistry and mineralogy.
History and political econ-
omy.
Advanced physics. | Trigonometry and survey-
ing or English.
German.
Botany.
Chemistry and mineralogy.
History and political econ-
omy.
Advanced physics. | Certificates given at the end of
two years, but pupils desir-
ous of continuing in school
may take suitable studies of
the third year in other
courses, and receive diplomas
of graduation. |

(a) Elective studies are printed in italics; all others are prescribed.

(b) General exercises in composition, declamation, and drawing are required in all the courses; a general exercise in music is optional.

(c) Military and calisthenic drills will be conducted under the same regulations as during the past year.

(d) Manual training for pupils of both sexes throughout each course is optional.

(e) Not more than four studies may be pursued at one time.

(f) Candidates for diplomas must pursue all the prescribed studies of the first and second years and at least three studies in the third year; students who, for any cause, fail to meet this requirement are enrolled as "unclassified," and can not graduate until the prescribed work is satisfactorily made up.

A résumé of the work of the year in the various branches will be of interest, though in a few cases it but repeats the report of last year.

Business training.—Number of pupils, 101; first year, 61; second year, 40. Attention has been given to business arithmetic, commercial law and geography, and the elements of political economy. The instruction has been eminently practical, pupils have been made acquainted with the current transactions of trade and commerce through frequent examination and analyses of market and other reports, and made familiar

with the forms of mercantile life by actually using them in an imaginary business.

Chemistry.—Number of pupils: Second year, 51; third year, 28. All pupils have had laboratory work; in the second year one hour a week, and in the third not less than three. The more advanced pupils have also prepared papers, from time to time, on subjects assigned them for investigation, and these they have read before the classes, illustrating them with experiments of their own devising.

The composition and adulteration of baking-powders, washing blues, pigments, etc., have been made the subject of special study, and many analyses have been made of these substances, besides the usual routine work in analytical chemistry.

In the study of mineralogy, which was taken up during the latter part of the year by the advanced class, use was made of the privileges granted by the authorities of the National Museum, the collections there being visited frequently and the specimens examined by the pupils.

Cooking.—Number of pupils 195. Work in cooking was inaugurated in the fall of 1887 under the charge of Miss Emma S. Jacobs. The study was optional, and, owing to the limited accommodations, open to girls of the second and third year classes only. Out of 286 pupils 195 took this study. The time devoted to it in school was an hour and a half per week. In addition, the pupil was required to practice the lesson at home. It was the unanimous opinion of the cooking classes that the course was beneficial, as it solved many questions of practical domestic life.

Drawing.—Number of pupils in special classes, 200; first year, 80; second year, 60; third year, 60—an increase of nearly 100 over the previous year; in the regular classes, all others.

A competitive examination was held at the opening of the term for appointments to the special class. Over one hundred first-year pupils took the examination, showing how highly this instruction is prized. Constructional drawing and the designing of patterns for wall-papers and fabrics are some of the practical features of the course.

In the regular classes all pupils have had practice in making geometrical figures from card board, while in the special classes considerable modeling in clay has been done, in addition to the usual amount of free-hand and mechanical drawing.

English.—Number of pupils, 650; first year, 444; second year, 96; third year, 110.

In the first-year classes pupils were given instruction in composition and elementary rhetoric, lectures upon the history of the origin and growth of the English language and literature. A syllabus of English literature was furnished each student and made the basis of the study of biographical and historical literature; but the major work of the year was the study of master-pieces directly from the writings of ten great representative authors. About three weeks were given to each. The library of the school was invaluable as an adjunct to this teaching, and as a result of the influence of this course and the carefully selected books of the library shelves a knowledge of what is best in literature and a taste for it was implanted.

Rhetoric, with constant practical work and Shakspearian comedy critically examined, constituted the two quarters' work of the second-year classes, while in the third year, English embraced formal logic and the exhaustive study of Shakspearian tragedy.

The usual attention has been given to English composition.

German.—Number of pupils 415; first-year pupils, 204; second year, 101; third year, 110.

This department continues to be one of the most popular in school. The "natural method" is employed in teaching, but the use of the English language is not entirely banished; translations from German into English are made whenever necessary. As a rule, however, German is spoken in the class-rooms from the beginning, the grammar is also systematically studied in the language proper; beside this, speaking and writing German and original composition are practiced. The head teacher's series of text-books for the study of German has been used with marked success.

The scientific classes go through a three years' course, studying in the first year volume 1 of *Deutsches Sprach und Lesebuch* (German grammar and reader). This course familiarizes pupils with descriptive German. In the second year the study of volume 2 of the same book (narrative German) and reading of original German texts ("Im Zwielficht"), in connection with systematically arranged oral exercises, is carried on. Third-year studies embrace a general review of the whole grammar and reading of more advanced German texts ("Novelletten-Bibliothek" and Schiller's "Wilhelm Tell").

A number of lectures in German are held before all the second and third-year pupils.

The academic classes, with only one year's course in German, go over the whole ground of the first and second year scientific sections, which is considered sufficient for entrance examination to college.

Greek.—Number of pupils, third year, 23.

Although the study of Greek was nominally discontinued during the year 1887-'88, on account of the small demand for the study by the pupils and the crowding of the school, a class that had already commenced the study was allowed to finish the prescribed course, reading three books of Xenophon's *Anabasis* and three books of Homer's *Iliad*. They also had exercises in Greek Prose Composition, using White's *Lessons* as a text-book.

History and political science.—Number of pupils, first year, ancient history, 422; second year, history of England, 67; third year, Freeman's *General Sketch*, political economy, 33.

The work in history during the past year was carried out for the most part on the general plan which was so well constructed by the former head teacher in this department, and which has won such high indorsement as that of Dr. H. B. Adams, of Johns Hopkins, and Prof. A. B. Hart, of Harvard University.

The last few weeks of the year, after the completion of the course in the text-book used in the advanced class, Mackenzie's "Nineteenth Century" was taken up and read in class, accompanied with general class discussion of the most important events of this century, as leading particularly to the condition of affairs at the present time. The growth of the school and the lack of accommodations has prevented the continuance of the system of lectures to the first-year history classes, as a whole, upon topics of current interest.

If it be found practicable, a course of lectures will be given to all the third-year classes of the school, towards the end of the coming year, on "The Civil Government of the United States," in order better to inform the graduating pupils on the province and methods of our local, State, and Federal Governments.

Latin.—Number of pupils, 347: First year, 169; second year, 103; third year, 75.

The academic course with Latin as its basis continues to be regarded by parents and pupils as affording the advantages of thorough mental discipline and the ground-work of a liberal education.

But a small percentage of the classical students enter college, showing that the study of preparatory Latin is pursued for its own sake.

Manual training.—Number of pupils, 260.

Increased accommodations for this department were secured by renting the two-story building at 626 O street, opposite the school. The first floor was fitted with boiler, engine and shafting, lathes, molding-benches, and forges. The second floor was furnished with twenty-four benches and sets of tools.

Nearly coincident with the opening of the school year, all the boys in the school were given an opportunity to elect this branch. One hundred and fifty of the first-year class and one hundred and ten of the upper classes began practice. The former took the beginners' course in bench-work upon wood and the latter received instruction in advanced work, which embraced wood-turning, molding, casting in soft metal, and forging in iron and steel.

A variety of useful and practical articles, besides regular drill exercises, was made in each division, and a considerable degree of skill in the handling of tools was developed in a majority of the boys. The work continued popular, very few dropping out during the year.

The regular work of the school was not interfered with by practice in the shops, and no complaints of such a nature were made. Two hours per week were devoted to the work.

Besides measuring the success of the training by the manual skill developed, a corresponding and relative advance was noticeable toward the attainment of accuracy and the power of intelligent observation.

A large percentage of the work sent from the O street shops to the exhibition held in the E street Rink in May, 1888, was made by the High School classes.

Mathematics—Number of pupils, 657: First year, algebra, 395; second year, plane geometry, 205; third year, solid geometry and trigonometry, 57; surveying, 33.

In this department special reference should be made to the large amount of practical work done by the classes in surveying. The problems in field-work included topographical surveys in Soldiers' Home park and on the Potomac Flats, leveling for profile and contour in the vicinity of the new reservoir, a reconnoissance of Rock Creek, the determination of heights and distances by means of triangulation, and the location of points with the plane table. Each pupil had practice with the instruments in turn, and all made plats or drawings representing the work done.

The work was performed by sections, each section doing some independent piece of work, and verifying the work of the other sections by re-survey, so that a double purpose was accomplished—accuracy in first survey and practice in finding the bench-marks, lines, stations, angles, etc., first determined.

The work in geometry in both the third and second year classes has been eminently satisfactory, special attention having been given to original exercises outside of the book, thereby allowing the students opportunity to apply the principles of the science, the aim being to develop reasoning power rather than mere memory.

The work in algebra has been conducted on the same general plan with the limitations that that subject would necessarily impose; the object in the mathematical work being to teach principles and not so

many facts, and to this end text-books have been regarded as secondary entirely to the personal teaching of the instructor.

Natural sciences.—Number of pupils, first year, physiology and physical geography, 404 ; third year, botany, 71.

The instruction given to the first-year class was by means of lectures, on the plan inaugurated in 1882, and since followed with success. For the detail of this plan reference is made to the syllabus of topics used by the pupils as a guide, a new and enlarged edition of which was supplied this year under the name "Outline of the First Year Course in Natural Science." A series of colored charts prepared by students under the teacher's direction to illustrate human and comparative physiology was added to the school equipment.

The work of the classes in botany has aimed to develop the habit of observation, at the same time furnishing instruction in plant-structure, both external and internal, and securing a general knowledge of methods of examining, identifying, and preserving plants.

In the laboratory the walls are covered with drawings and mounted specimens prepared by pupils, classified and distinctly labeled. The cases of drawers are well stocked with every procurable variety of leaf, pod, and berry to furnish material for object study when excursions to the fields and woods are no longer profitable.

Large additions have been made during the year to these collections and also to the supply of illustrative charts. Several hundred specimens have been added to the collection of the District flora. Much work has also been done by pupils with the microscope in the examination of objects and in drawing and describing the details of plant-structure. The work of the classes in botany has been greatly facilitated by the use of the "Guide to the Student in Botany," prepared by the instructor, Mr. E. S. Burgess, containing directions for observation, for descriptions and laboratory work, and also the headings for lecture-topics, and furnished to the class by favor of the board of trustees at the beginning of the year.

Physics.—Number of pupils, second year, 247 ; third year, 33.

The laboratory work for all pupils was continued during the entire year for both classes, the aim being to make clear the principles of physics rather than the acquiring of skill to make nice adjustments.

Many pieces of apparatus were made and given to the school. In addition to the class-room instruction the pupils were combined once a week and given a lecture accompanied by elaborate experiments and demonstrations. The work in sections was illustrated constantly by physical apparatus.

Vocal music.—Number of pupils, 250.

The singing of the second and third year classes under the leadership of the director of music has been better this year than ever before. The pupils have taken a deeper interest and the work has been very satisfactory.

It is to be regretted, however, that the first-year class has been deprived of instruction in singing by the half-day plan of instruction, as it must be detrimental to the work for the coming year.

Military drill.—Number of pupils, 180.

It is to be regretted that both the lack of accommodations and the limit to the supply of cadet rifles prevents the enlargement of the battalion. Many boys were excluded unavoidably from the drill, while the demand for entrance, both from parents and pupils, is constantly increasing, showing the popular appreciation of the exercise as a means of physical development.

The equipment consists of one hundred and fifty Springfield rifles and accoutrements loaned by the War Department, fifteen swords for officers (the property of the school), drums and colors.

The drill hall will accommodate only four companies for formation and drill in the manual; foot movements are necessarily performed in the play ground or street.

May 25, 1888, a competitive company drill was held in the school exhibition hall. The judges were from the regular Army and the National Guard; General Ordway and staff were present. The exercise was before an audience of 1,200 people, and revealed a steadiness in those in command and a precision in the movements of those in line that was a surprise to the army critics and reflected great credit both upon the drill instructor and the boys themselves.

June 15 the annual exhibition drill was given in the plaza before the Arlington.

On April 4 the entire battalion participated in the funeral obsequies of the late principal, forming a guard of honor for the remains from the house to the church and, after the public ceremonies, to the city limits.

April 7 the battalion assisted at the interment of the body, which had lain in the tomb at Rock Creek Cemetery.

LIBRARY.

In 1882 a portion of the "Seaton fund" was devoted to the establishment of a library in this school. The number of books purchased by this sum was subsequently increased by the efforts of trustees, who secured for our use the stock of the old Washington City Library. Money has been raised in past years from the receipts of school concerts and exhibitions, and by voluntary contributions from parents and pupils. In this way the library has been developed, not as a popular circulating library, but as a working adjunct to the departments of the school. In the purchase of books the aim has been to procure standard reference books in history, biography, science, travel, and general literature, that the student may supplement his studies by original research.

The school library is the English teacher's laboratory; pupils have been taught how to work in this laboratory and how to use its various aids and appliances. Lists of books have been made by the teachers, and some of these have been prescribed and others recommended for outside reading, a constant effort being made to cultivate a taste for good and wholesome literature.

It is to be regretted that lack of money hinders the expansion of the library. Concerts are believed to interfere with the regular studies; solicitation of funds is discouraged, and the school is practically without resources to add new works imperatively needed, or to replace volumes destroyed by the wear and tear of circulation.

It is desirable that the poverty of this department be recognized and relief afforded by allotting, in the estimate of school expenses, the small annual sum of \$500 to the library.

The work of cataloguing the books by means of cards, which was begun 1886-'87, was completed by both titles and authors, and, in addition, a subject card catalogue was begun. During this year a pamphlet library was formed, consisting of articles taken from magazines, newspaper clippings, etc., each bound in a paper cover in convenient

form for general use. A Woodruff file-holder was purchased, which now contains about one thousand catalogued articles.

A course of so-called "library instruction," consisting of lectures delivered by the assistant librarian to each section separately, upon "The Use of the Library," with hints and suggestions with regard to profitable reading and the use of references in connection with the study of English literature and history was given to the first year pupils. This proved successful, as was indicated by an encouraging increase in the number of books drawn and consulted by the pupils.

The room now contains the following conveniences: Three long tables, which afford writing facilities for about thirty pupils; three small tables, each accommodating two persons, and five benches, each seating four. This restricts the use of the library to between fifty and sixty pupils at most, while many are turned away daily because there is no room for them.

The necessity of a larger room, where all can have equal advantages and where pleasant and comfortable surroundings may cultivate a taste for research, is apparent.

Expenditures.—Through a bequest made by the late Miss Marie L. Walker books have been purchased to the amount of \$500.

Appropriated by the school authorities for the purchase of new books, \$100.

Books obtained by exchange to the amount of \$20.

Number of books rebound on requisition, three hundred and eight.

Average number of books drawn daily, excluding reference books, about sixty. Fifteen thousand drawn during the school year.

LECTURES.

Thanks are due Prof. O. T. Mason, Col. F. A. Seely, President White, and Mr. J. B. Daish for lectures to the school upon various subjects.

Supplementing the work in his department, the head teacher, Dr. Wilhelm Bernhardt, gave four lectures in German to the scientific students upon the geography, history, and literature of the "Fatherland." These lectures were highly interesting and popular, both from the information given and the fact that a foreign tongue was spoken. Dr. Lane, Miss Lathe, and Miss Pitts gave lectures to the upper classes in addition to the class instruction in English.

EXAMINATIONS.

During the year an experiment was tried in lessening the amount of formal written examination work.

In place of the quarterly test examinations formerly held, students whose work in every branch was satisfactory were excused, and only delinquents retained for the examinations.

The evil of cramming for marks was eliminated by this plan, while the stimulating power is retained in cases where it is needed. The general scholarship has not suffered in the least, and the reform has done away with many bad features of examination work.

COLLEGE SCHOLARSHIPS.

The school has various college scholarships within its gift, some of which are allotted by competitive examination, others for superior rank throughout the course.

The following assignments were made in June: The Birney scholarship in Cornell University to W. M. Cruikshank, by competitive examination. The Boston University scholarship, awarded to the applicant having the highest record during the three years' course, was won by Miss F. S. Shipman, and resigned by her to Miss B. L. Gardner. The Kendall scholarship in Columbian University was won by E. W. Williams under the same conditions as the Boston University scholarship. The Georgetown Medical scholarship was awarded to W. A. Wells for special ability and high record; the National Medical scholarship to J. H. McCormick for high record, and the National Dental scholarship to F. P. Stockbridge.

GRADUATING EXERCISES.

The annual commencement of the High and Normal schools was held at Albough's Opera House, Thursday, June 21, Commissioner W. B. Webb presiding.

The programme consisted of an invocation by the Rev. Dr. William A. Bartlett; an introductory address by the president of the board of trustees, the Hon. J. W. Ross; an address by the Hon. Benton J. Hall, Commissioner of Patents; an address by the Hon. W. B. Webb, in which he alluded feelingly to the noble work of the late principal and the enduring testimonial to his greatness as an instructor, organizer, and executive, that exists in the school built up largely by his efforts.

Graduates received their diplomas from Commissioner Webb. Throughout the afternoon the exercises were varied by musical numbers from the Marine Band, under the leadership of Mr. J. P. Sousa.

DEATH OF PRINCIPAL PAUL.

It is impossible to pay proper tribute to the memory of the late principal within the narrow limits of this report.

"The sorrow for his death penetrated all ranks and circles. It was not confined even to those who knew him personally. Thousands knew him as the teacher of their children, and through their children had become deeply attached to him."

In making an estimate of his ability and character it is not too much to say that if "genius is the capacity for taking pains," he was in the highest sense a genius. As an organizer of school work he had no superiors, and as an executive officer he was seldom equaled. He made a scientific study of educational methods, visited extensively other high schools in the North and West, and adopted the best ideas wherever found.

The testimony of hundreds of graduates and pupils who respected, revered, and loved him shows that his short life-work was successful and noble. He had the confidence of all of his associate teachers, and because of his universal courtesy of bearing and sympathy for each one in the corps of instructors was regarded by every member of the faculty as a friend rather than as an official superior. His loss is an overpowering personal bereavement to us all and an irreparable detriment to the institution, in which his memory will be green so long as the school stands.

CONCLUSION.

I wish to call attention again to the low salaries paid teachers of this school and to the inevitable result that the institution will become

a training school for young teachers, who will not stay in the corps after the experience here acquired makes it possible to secure a better paid position elsewhere.

In closing I wish to thank the superintendent and the teachers of the school for assistance rendered at the trying time of Mr. Paul's death and in the subsequent management of the school.

Respectfully,

F. R. LANE,
Principal.

Mr. W. B. POWELL,
Superintendent of Public Schools.

REPORT OF THE PRINCIPAL OF THE NORMAL SCHOOL.

WASHINGTON, D. C., *June 30, 1888.*

DEAR SIR: I have the honor of submitting the report of the Washington Normal School for the school year beginning July 1, 1887, and closing June 30, 1888.

In September, 1887, the Washington Normal School received its new class, consisting of forty members, thirty seven of whom were girls, three of whom were boys. They were admitted to the school by virtue of having made a high record in scholarship, attendance and deportment at the Washington High School, and by reason of taking the highest rank in passing the competitive examination in music, drawing, arithmetic, general information and aptitude for teaching.

Inasmuch as the classes graduating from the High School are so large, and the Normal School can accommodate but forty pupils, the pressure and competition for admission increase each year.

It is a matter of remark that each succeeding class from the High School presents better qualifications and training for our professional work. There seems to be a steady improvement in their culture, in their grasp of thought and in their power to do things. This should be eminently gratifying to those who have the best interests of the schools at heart, for it is a demonstration not only of the increasing value of the high school training, but an indication that the work of the graded schools, laying the foundations for the high school course, is improved from year to year. It is of especially good omen to the Normal School, for the normal technical training is so absorbing that it admits of no academic work, except that which is incidentally given in making reviews of the studies taught in the graded schools.

It is desirable that those pupils of the High School who look forward to becoming teachers avail themselves of the excellent course in botany and zoology which is given to the classes of the High School. A glance at the course of study will reveal the fact that these subjects form an important part of primary instruction. However little of the two great kingdoms, plant and animal, is taught, one must know much in order to teach that little well.

It may be in place to suggest that the examination in music for admission to the Normal School be quite strict. A practical as well as theoretical knowledge of vocal music is now an every-day requisite for teachers. It is hoped that none will be admitted to the Normal School whose ear and voice have not had adequate training for the appreciation and production of good tone. The busy year at the Normal School

offers no unusual facilities for remedying the faults of nature in this particular.

Of the forty pupils composing the class of 1888, twenty were placed at the Webster building, constituting the Webster training school, while twenty were assigned to the Franklin building, forming the Franklin training school. Mrs. Myers and Miss Wise supervised the work at the Webster building, Miss Schimmelfennig and Miss Copenhaver that at the Franklin building. At the close of December Miss Schimmelfennig withdrew from the Normal School, Miss Copenhaver being elected to fill the vacancy made by Miss Schimmelfennig's withdrawal. Miss E. V. Brown, of the normal class of 1886, was chosen for the position of practice teacher. So acceptable was the work of the teachers thus promoted that the schools met the changes without perceptible disadvantage. In all particulars the year has proved to be the best that the school has enjoyed.

The Washington Normal School is unique in its organization, its work in theory, its opportunities for practice, its access to a wealth of resources in the departments of science and learning in this city.

In theory it aims to make an investigation of the different branches taught in the public schools, as well as a study of the philosophy of education and of the history of education. This investigation of the branches taught runs in three lines:

First: The subject, *number*, for example, is studied with a view to learning what it is; what is its origin; what are its subdivisions; what are its applications to daily life.

Second: The educational or psychological value of the subject is considered, or its place in a system of education. This study, coupled with the daily observations of the unfolding of child mind, in the practice schools and elsewhere, gives to the normal pupils the finest kind of opportunity for psychological observation and conclusion. If each pupil of the Normal School could take one child and record faithfully its progress from day to day, giving some idea of the conditions under which that progress was made, testing the influence and educational value of the studies taught to the child, she would render to herself and to the teaching profession at large a service of inestimable value. Such methodical and trustworthy observation, compared much later in the year with the laws of psychology as they are formulated in the leading text-books on the subject, would doubtless give a reasonable foundation to real psychological knowledge, and would inculcate a true scientific spirit in those pupils in training for the profession of teaching. Thus far, ideal psychological study has not been realized.

With a logical knowledge of the branch of study to be taught, with some knowledge of child nature, and with an appreciation of the stages of growth of child mind, the normal pupil may profitably consider and plan a course of study which is suited to the child's growing capacity, and which has for its object the development—not merely exercise—of the child's power to see, think, imagine, remember, express.

Until the normal pupil knows the subject to be taught, knows its educational value, knows how much of the subject should be taught, as well as, relatively, when it should be taught, he or she is not ready to study how it is to be taught. The methods of teaching are therefore the last step in the theory of teaching. In our school the methods of teaching a subject are considered historically and critically; the former, that the pupils may appreciate the real history of education, the latter, that they may appreciate the relative values of ways of teaching. When methods are thus compared and their true place and value are known,

the normal pupils are taken to see some of the methods in operation, to learn why, to what extent, when, and how the work is done. This careful every-day work that is done in the normal schools gives good evidence in the schools at large that our normal pupils are thoroughly trained and equipped to do sensible, practical, cultivating work when assigned to the responsible position of a teacher of little children. An excellent proof of this is the successful management of the cooking schools of the city maintained by two graduates of the preceding class. Knowing the reason for the work, these young teachers are made strong enough to devise the most direct methods of teaching, to use methods of their own. The besetting sin of young, inexperienced teachers is the blind, inconsiderate adoption on their part of methods that are good because they are just in their place, but which might be very poor in other circumstances. The work of normal schools everywhere should be to discourage utterly such weakness.

In the manner outlined above the normal class studied, during the past year, language, including reading, number, geography, history, physiology, zoology, and botany. Drawing, in theory and practice, was taught by Mrs. Fuller, assisted by Miss North. Under Miss North's direction the entire normal class had weekly lessons in sketching and rapid black-board drawing.

In music the class was in charge of Professor Butterfield. The course consisted in lessons on the theory of music, in exercises in singing, in criticism lessons and practice in the practice schools, and in observation lessons in the primary schools outside.

The whole normal class received instruction in sewing, one hour a week, from Mrs. Weaver.

Four members of the normal class were detailed also to take lessons in cooking from the teachers of the cooking schools.

It gives me pleasure to acknowledge the excellence of the instruction of the special teachers. They spared no effort to give the normal pupils the best opportunities and teaching in their several departments.

An important feature of our Normal School is the practice schools. Last year there were three practice schools, a first, second, and third grade, in connection with each training school. We are very glad to acknowledge that in answer to our needs a fourth-grade school has been added both to the Webster training school and to the Franklin training school. These fourth-grade schools are in charge of regular teachers, so the supervision of the teaching done by the normal pupils is very close. In the first, second, and third grades the teaching is supervised by the practice teachers, the training teachers, and the principal of the Normal School. Several days before the opening of schools sixteen members of the entering normal class were selected and were instructed as to what and how they were to teach in the practice schools. Of the sixteen selected, two, a principal and an assistant, were chosen for each grade. After that instruction these pupil teachers of the normal class planned their lessons, a week in advance, for the second week of school and submitted their plans of lessons to the training teachers for criticism. After three weeks of teaching the principals were permitted to return to the class work of the normal room, the assistants became principals, while those were promoted to the places of assistants who had been giving a course of lessons in the several grades in form. This rotation in teaching duty was maintained during the whole year, so that after the first week, at no time were the children in the practice schools in the hands of those who were entirely inexperienced. Moreover, the pupils of the normal class were never a week at a time without some

regular work in teaching. That the children might not suffer from change of teachers, the practice and method teachers made frequent tests of the thoroughness and efficiency of the teaching. Further, every-day lessons were given in the practice schools, by practice and training teachers. At these lessons, which were to serve as standards of good teaching, the normal class was present; immediately after each lesson careful reports of the lesson were read, and a criticism of the lesson given with reference to the purpose of the lesson, the point selected to be taught, the method or order of presenting these points, the relative emphasis given to them, and the completeness of the presentation and drill. Nothing in the work of the year of training gives better development to the observation, to the critical faculty, to the judgment of the normal pupils, than such criticism lessons. That the parents have confidence in the organization and direction of the practice schools under our present arrangement is shown by the fact that our schools are full, and there are always applicants waiting for the first vacancy that may occur. That the schools are of interest to the public and to strangers coming to the city is shown from the hundreds of visitors that come to the schools, not only from the city but from all parts of the country.

The number of our own teachers that visit the schools is steadily increasing. This is a good omen. It is significant of the close relation which the Normal School sustains to the schools at large. That the connection with the outside schools might be as close as possible, during the year many sample lessons were given in the several grades of the practice schools, the teachers of the grades represented being present at the lessons. After each lesson the teachers met for a free discussion of the place of the special lesson in the work of the year and for discussion of methods and aids in school work.

During the year members of the preceding normal class came together nearly every week to report the progress of their work, to compare work, to confer with one another and with the teachers of the Normal School. Nothing serves better to bind the schools together than such meetings. They give solidarity to the whole school system.

There was a marked improvement observable during this year in the work of the practice and other primary schools, in language, reading, and number. The little compositions made by the children showed far better results than were before attained, in the careful, logical, sequential, plastic expression of matter suited to the child's interest and understanding. Teachers have learned that pictures are not the only subjects for study, but that delightful compositions may be made by the children on the games that are played, on the occupations of hours in school and out of school, on the parts and uses of the plants and flowers which are the children's joy, and on the parts and habits of the animals that make friends with the children and become their innocent, uninjured objects of investigation, knowledge, and pleasure. Teachers have been glad to realize that the hours of school-time may be filled with such subjects for the children's observation and expression, whether that expression be oral or written.

In reading, throughout the primary grades, the teachers of the practice schools and other primary schools have seen that the object of reading is the getting of units of thought. The child is debarred from the delight of giving this thought unless he is led to the mastery of the words, phrases, and sentences with which the thought is presented. The ingenious and philosophic method, therefore, is used of presenting to the children matter like that which is the subject of the printed

page. The children are guided in natural conversation about the matter. The teacher skilfully leads them to use intelligently the expressions the author has used. Their own well-understood sentences thus developed are written upon the board, and the children are drilled thoroughly in the use, recognition, sounding, spelling of the words necessary to the intelligent, natural reading and reproduction of the author's thought. In this way words have a meaning for children; in this way words become instruments useful for their own expression; in this way words and ideas are associated so as to be remembered permanently.

We have as teachers learned the necessity of helping the child to help himself. To this end there are daily frequent exercises in sounding, word-making, word-building, and spelling. This work, which may seem like drudgery, loses its dullness when its value is appreciated, when to it are applied skill, interest, energy, and faithfulness, which are the marks of a true teacher.

In number, careful training is given in seeing, in problem-making, and in abstract number study. The work is as scientific as that of the observation of natural phenomena. With his material the child makes his arrangement, he studies the relations of number, he is helped and held to the exact expression of those relations by using idioms that express exact relations. His imagination is cultivated in the making of problems suited to the relations expressed by his material, and his knowledge of number is multiplied largely by this making of problems. These are the practical applications of number, which he is led to make. After all these observations and applications, he is ready to deduce his formula, his mathematical law, his number in the abstract.

So careful is the training in seeing, thinking, and expressing the relations of number, that one is safe in predicting splendid educational results from such work, and that at no distant date.

Already the schools under your superintendence are gaining high rank, are attracting much attention because of the real educational value of the methods you have introduced. May I suggest that in these three lines of language, reading, and number there is being laid the basis for educational work which may challenge the attention and following of all thoughtful educators.

It may not be amiss to say that the study of the work of the hands in the schools, including, of course, the practice schools, is occupying an important place and meeting with good results. Through the teachers of drawing, you have introduced a system of work which is admirably adapted to its purpose *per se*, and as a foundation for the work in manual training in the higher grades and in the High School. No comment is necessary when it is seen that the children actually make form with clay, splints and sticks, represent what they make with their pencil, decorate what they have made, invent design, and at each stage of the work express orally and in writing the processes and results of the work and cultivation of their busy little hands. Moreover, it would hardly be in keeping to give a lengthy *verbal* report of the improvement of the work of the schools in this particular, when to the public, to the teachers and to the pupils was made in May of this year an exhibition of a system of eye and hand training which for sequence and results, it has been stated, has no superior in the educational history of this country.

We as a Normal School must gratefully acknowledge the co-operation of teachers generally in the work of the Normal School. Nothing

has been more gratifying than their immediate response to our needs whenever assistance could be rendered in any form.

The pupils of the Normal School had opportunities of listening to lectures from men and women whose names and experience gave authority to their statements. Among these lecturers were the superintendent of the schools, Maj. J. W. Powell, Professor Chickering, Dr. Mayo, Mrs. Abby Morton Diaz, and others.

In the interests of the school, botanical excursions were made by the class as a whole, or by committees, visits to different parts of the city for geography study, observations of teaching done in the higher grades, visits to the National Museum, Corcoran Art Gallery, Congressional Library, and Bureau of Education. In all the institutions visited we were met by the ready courtesy and co operation of those in charge. Special thanks are due the Commissioner of Education and his assistants for their never failing response to our needs whenever they have been provided with the means to relieve them. Especially helpful and encouraging to us have been the frequent visits of Commissioner Webb, the superintendent of the schools, the supervising principals. Of the normal pupils words of commendation are not needed to tell of their zeal, their punctuality, regular attendance, appreciative efforts to make the most of the opportunity which the public generously gives them to fit themselves for this profession and to take the places of responsibility which the public awards to those who assume the care of educating children.

Everything possible is done by the faculty of the Normal School to promote the health, happiness, and usefulness of the normal pupils. It is urgently desired that their parents co-operate with us in that care which must begin at home; the care that sees that these pupils have plenty of exercise, sufficient sleep, good, sensible, loose clothing, and a hearty breakfast before coming to school, as well as a substantial lunch to keep up the strength used during the day. Parents who let their daughters come to school with only a cup of strong coffee for breakfast, with insufficient tidbits for the midday lunch, must expect a breakdown sooner or later, if this is persisted in. Parents owe a duty to teachers as well as teachers to parents; and both owe a duty to the pupils.

June 21, a joint commencement of the Normal and High Schools was held at Albaugh's Opera House. The occasion was one of interest and dignity. A large audience was present. There were addresses made by Commissioner Webb, Postmaster Ross, and Commissioner Hall.

There were forty graduates of the normal class.

Allow me, in conclusion, to thank you for your especial kindness to the school in all ways. No one is more eager for its success than you have proved yourself to be, and no one has been more ready to give it the benefit of practical assistance, of wise counsel, and of a full, ripe experience. With assurances of the close of a successful year, and with the hope that each succeeding year may be, as this has been, an improvement on the preceding year, I have the honor of presenting my report to you.

Very respectfully,

EMMA S. ATKINSON,
Principal.

Mr. W. B. POWELL,
Superintendent of Public Schools.

REPORT OF THE DIRECTOR AND THE ASSISTANT OF MUSIC.

DEAR SIR: We have finished our third annual examination and respectfully submit this report. We began examining April 10, and have spent one week making a second visit to schools that were poor on the first examination. We have in the mean time spent one-half day of each week in teaching, one in the High and Normal Schools and the other in the schools where it was thought our services were most needed.

In the first and second grades music is taught, first, by rote; yet we find many of these classes can sing at sight, the teacher pointing and keeping the time for them. They can tell the kinds of notes and rests used and beat the time fairly well.

The third grades can sing readily at sight in the key of C, keeping good time while singing.

The fourth grades have made quite an advance over last year, there being but few schools where "octave singing" is heard. We think the exhibition of Miss Cohen's class at the Jefferson School, February 29, was very beneficial to the teachers and resulted in much good.

The fifth grades are about the same as last year.

The sixth grades have made quite an advance, the most of them sustaining three parts well.

The seventh and eighth grades are more uniform in their work and are considerably in advance of last year. The special meetings held the first four months of the year were instrumental in advancing the work all along the line.

With the new books and charts recently adopted by the board of trustees we shall hope for still further progress in the future.

The summary of our rating is as follows:

| | |
|---|-----|
| Number of schools considered excellent..... | 142 |
| good..... | 132 |
| fair..... | 63 |
| poor..... | 25 |

Very respectfully,

F. H. BUTTERFIELD, *Director.*
J. H. DANIEL, *Assistant.*

Mr. W. B. POWELL,
Superintendent of Public Schools.

REPORT OF THE DIRECTOR OF DRAWING.

WASHINGTON, D. C., June 30, 1888.

DEAR SIR: The school year 1887-'88 has been one of unusual interest in all that relates to form study and drawing.

The suggestions presented in the last yearly report were to the effect: (1) That, in connection with the drawing, there should be some construction of forms made of materials in the hands of each pupil; (2) that, in representing apparent forms, a more determined effort should be made to train each pupil to see and to draw directly from the object; (3) that, in decorative drawing, a more systematic effort should be made to lead pupils to study natural forms; (4) that in some way there should be demonstrated on the part of the pupil the fitness of the decoration to the object decorated.

These ideas did not involve the introduction of any new system or of new material into the schools, but only the unfolding and more extended application of that already introduced. The great improvement recently made in the text-books in use made the work comparatively easy for the teachers, especially in the upper grades.

To the realization of the ideal set before them both teachers and pupils devoted themselves with untiring industry and enthusiasm.

The following are some of the details of the plan that was followed: During the first three months of the school year the time allotted to this subject in the first and second grades was given to molding clay and to drill in movements calculated to give flexibility to the hand and arm, to accustom the body to correct position, and the hand to a free and graceful use of the pencil. Actual drawing was first taken up in connection with the succeeding course in stick-laying, the forms being first constructed and afterwards drawn. Colored sticks of assorted lengths were used. A course in paper-folding followed, the forms being first made by folding and afterwards drawn. The movement drill was continued throughout the year. The work was so arranged as to exercise constantly the imitative, inventive, and executive faculties of the children.

In the third and fourth grades molding in clay and paper-folding, including the cutting of the same, constituted in the main the object-work, the clay being used both the first and the last of the year. The objects molded and many other kindred objects were drawn. In connection with the paper-folding, the drawings were made from the forms constructed. In the fourth grade very beautiful work was done in clay in representing natural leaves. The improvement in methods, as well as in the quality of the work, was very marked in this grade.

In the fifth grade the constructions with material consisted of models in stiff paper and card-board constructed from working drawings.

Working drawings and the construction from them of paper models was introduced into the sixth, seventh, and eighth grades. I can not speak too highly of the energy and efficiency shown by the teachers in undertaking this work so entirely new to them. They were aided by the enthusiasm of the scholars, who were generally delighted with it. The constructed models were of great value in object-drawing, and insured an amount of drawing directly from objects that could not have been attained in any other way. In this subject a great advance was made in drawing groups of objects. This, too, was owing largely to the availability of the constructed models for grouping.

Although rather less time than usual was given to decorative drawing, the results were very satisfactory. The use of natural forms was very general, and the designs made were applied to the forms constructed by the children, giving to the pupils ideas of applied design which, if limited in extent, were pointed in their application. These decorations were sometimes made by drawing and sometimes by cutting the design in colored paper. Some of the effects produced were beautiful and interesting. It has been gratifying to observe that many applications of the ideas in construction and design were made by the pupil at home with materials not available in school.

This application of the design to the construction is a legitimate outgrowth of the course of study, and was demanded by the irresistible desire of the children to decorate the models after making them. Without instruction the decoration was usually in very questionable taste, so it was necessary to guide the natural impulse of the child to some better conception and its expression. This lifted the subject of design

from the position it has usually occupied as a pure abstraction in the child's mind, and gave the learner a practical illustration of the fact that a design that is to be applied to any purpose must be adapted to it; also that decoration is like other arts founded on principle and subject to law, the contrary of these propositions being ideas of which it is very necessary to disabuse the childish mind. The representation of the decorated form will be a subject to which special attention will be given the coming year.

It will be observed that the use of clay is discontinued in the fifth grade and only resumed in the special classes of the High School. The use of this material has always been recognized as of value in the study of form, and of much practical utility in industrial and artistic work. There is no doubt that its use might be continued with advantage in the upper grades. In advanced work, however, much larger quantities of material and better facilities for its care and preservation are necessary. If such facilities can be provided, it would be well to extend its use throughout the course.

It will be seen by the trained observer that the above plan, the practicability of which has been fully demonstrated during the past school year, comprehends a complete course in form study and manual training. Assuming that it is desirable to continue such a course, the question of time becomes important. It can not be pursued permanently and successfully in the time that has been given to drawing alone. Not only more time, but a more equitable distribution of time is desirable. Any art in which the hand is employed, whether viewed in the light of its practical uses or of its educational development, requires constant and persistent repetition of the exercises involved. Spasmodic manual training is of little value. With sufficient time, definitely and equitably distributed throughout the year, the course so gratifying in its present results will rest upon a sure foundation, strong enough to sustain the completed structure.

The following plan was pursued in giving instructions to and supervising the teachers. In regular grade meetings and in meetings at intervals throughout the year, specially called for this purpose, full instructions were given by the director. The assistants, who also attended these meetings, were then called in conference. Certain portions of the District being assigned to each and to the director, the duty of each was to visit the schools assigned, see that the prescribed work was being done and give such assistance as seemed to be required; also twice during the year to make a more formal examination of the results attained in each school. Once each week the assistants have met the director, submitted a written report of schools visited and received instructions. Miss AtLee, a graduate of the Normal School class of 1887, was assigned to the position of assistant and worked satisfactorily in the general supervision of the schools.

Of the meetings mentioned above, in which instruction has been given, forty-seven were held during the school year. This includes five meetings held at different points in the county where the teachers in the vicinity were called together for instruction, and nine general meetings of county teachers.

Two exhibits were held during the year. The first was held in February, at the time of the annual meeting of the superintendents. This illustrated what the schools had accomplished, especially in construction, up to that time. It attracted much attention and was the subject of careful study by many visitors.

The second formed a part of the industrial exhibit of the public

schools, held in the rink, a large building on E street, from May 31 to June 6. This attracted crowds of interested visitors. The following description of the arrangement will give some idea of that part of it devoted to form study and drawing:

The Normal School exhibit in form represents the work in this study through the eighth grades. This was on the right of the entrance.

Following the Normal School exhibit was the representation of the form study and drawing from every school. Every pupil of the first, second, third, and fourth grades of school was represented. At least fifteen pupils from each school of the fifth, sixth, seventh, and eighth grades were represented.

The development of this work through the grades was represented in the order of the grades, extended entirely around the room, beginning with the first grade.

The vertical order of arrangement illustrated the course of study in each school, as follows:

- I. Construction of form.
- II. Representation of form.
- III. Decoration of form.

In the first four grades construction was shown by forms molded in clay, the placement of sticks, and by folded papers; in the last four by models constructed of card-board hung by the side of the working drawing; below these were hung the decorated models.

Representation was shown by drawings of single forms or of groups of forms constructed by the children.

Decoration was shown by drawings of ornament. These were designed by the pupil.

The unit of design was derived from a natural form in the hand of the pupil, such as a leaf, a flower, a branch, or a plant, the law of arrangement being given by the teacher, as repetition around a center, bilateral, or continuous as in a border, or for covering a surface.

The High School exhibit, at the left of the entrance, comprised the following:

HIGH SCHOOL.

From the regular classes an exhibit of one page from each drawing-book; from the first year, geometrical work, object drawing and design; from the second year, the same, with light and shade work in object drawing; from the third year, projection, development, and perspective of solids. The work of the third year is wholly mechanical.

Special classes.—First year: Freehand object drawing, design drawing, and geometrical problems. Second year: Shaded drawings from casts and models; designs modeled in clay; geometrical work (projection and perspective). Third year, First section: Work in color. Historical ornament, flowers, and applied design. Second section: Drawings from casts. Third section: Light and shade in projection and perspective.

This arrangement gave a very comprehensive view of the course of study as it was pursued throughout the year. The models were constructed with neatness and accuracy, and the decorative work was generally in good taste. The exhibit was pleasantly closed by a meeting of all the teachers who were thus given an opportunity to study the work as a whole.

Two lessons per week were given in the Normal School by the director. The lessons in drawing given by the members of the school in the eight practice schools attached to the Normal School were supervised by Miss

North, one of the assistants, who also gave the lessons in sketching for illustrative drawing.

The drawing in the High School has been entirely in charge of Miss Annie M. Wilson. The increase in the number of pupils made it necessary to give her temporary assistance in the management of the classes. The inevitable annual increase will make the appointment of an additional teacher necessary to the efficient conduct of the work.

In conclusion, I desire to express my thanks to the teachers for their faithful efforts to carry out my suggestions, to the supervising principals for their cordial co-operation, and to yourself for your uniform kindness and helpful support.

Respectfully submitted :

S. E. FULLER,
Director of Drawing.

Mr. W. B. POWELL,
Superintendent of Public Schools.

SUPERINTENDENT COOK'S REPORT.

OFFICE OF SUPERINTENDENT PUBLIC SCHOOLS,

Washington, D. C., Nov. 1, 1888.

GENTLEMEN: I respectfully present herewith a report of the colored schools of Washington and Georgetown, which embrace the seventh and eighth divisions of the public schools of the District of Columbia, for the year ending June 30, 1888.

The entire number of schools in these two divisions was 176, an increase of 8 over the school year 1886-'87.

They were classified as follows :

| | |
|------------------------------|------|
| Normal school..... | 1 |
| High school..... | 1 |
| Total..... | 2 |
| Grammar schools : | |
| Eighth grade..... | 6 |
| Seventh grade..... | 8 |
| Sixth grade..... | 11 |
| Fifth grade..... | 18 |
| Total..... | 43 |
| Primary schools: | |
| Fourth grade..... | 20 |
| Third grade..... | 27 |
| Second grade..... | *35 |
| First grade..... | *†45 |
| Total..... | 127 |
| Manual training schools..... | 2 |
| Cooking schools..... | 2 |
| Total..... | 4 |
| Grand total..... | 176 |

* One school under instruction of assistant teacher in normal school.

† Two schools closed during the year by transferring pupils to other schools.

The whole number of pupils enrolled was 11,040. They were enrolled in grades as follows:

| | |
|---------------------|--------|
| Normal school | 40 |
| High school | 361 |
| Total | 401 |
| <hr/> | |
| Grammar schools: | |
| Eighth grade | 225 |
| Seventh grade | 308 |
| Sixth grade | 460 |
| Fifth grade | 854 |
| Total | 1,847 |
| <hr/> | |
| Primary schools: | |
| Fourth grade | 1,013 |
| Third grade | 1,481 |
| Second grade | 2,070 |
| First grade | 4,228 |
| Total | 8,792 |
| <hr/> | |
| Grand total | 11,040 |

The whole number of teachers employed was 191, of whom 178 were female and 13 male. They were employed as follows:

| | |
|-----------------------------------|-----|
| Supervising principals | 2 |
| Normal school | 3 |
| High school | 9 |
| Grammar schools: | |
| Eighth grade | 6 |
| Seventh grade | 8 |
| Sixth grade | 11 |
| Fifth grade | 18 |
| Primary schools: | |
| Fourth grade | 20 |
| Third grade | 27 |
| Second grade | 34 |
| First grade | 42 |
| Teachers of music | 2 |
| Teachers of drawing | 1 |
| Teachers of manual training | 2 |
| Teachers of cooking | 2 |
| Assistants to principals | 4 |
| Total | 191 |

The local census taken by direction of the Commissioners of the District of Columbia in June last shows that there are in the District of Columbia 51,500 children between the ages of six and seventeen years, inclusive, of whom 18,200, or more than one-third, are colored. It appears from this census that the increase of the colored school population since the taking of the United States census of 1880 is 30.5 per cent. Supposing this increase to be uniform in the two cities and in the county outside of the cities, the colored school population of Washington and Georgetown was in June last 15,579. The difference between this number and the entire enrollment in the public schools for the year shows that there were 4,539 children of the population of legal school ages that did not attend the public schools; and as the same census shows that only 44 colored children were in June attending private schools, which was probably not far from the average for the year, the number of children that did not attend any school was about 4,500, or 28.8 per cent. of the school population.

The average number of pupils enrolled was 8,791; the average number in daily attendance, 8,302. The average enrollment was 56.4 per cent. of the school population, as shown by the June census. The increase in the whole number enrolled, in the average number enrolled, and in the average attendance over the school year 1886-'87 was, respectively, 675, 324, and 327.

FLUCTUATIONS IN ATTENDANCE.

The changes in membership, though now generally less frequent than in former years, are not so few as to favor the greatest degree of general school efficiency. The enrollment for the year shows that about 11,000 different children enjoyed the benefits of the schools during some period of the school year, longer or shorter. The difference of 2,249 between the whole number and the average number enrolled indicates considerable changes in the membership of the schools.

A fair idea of the fluctuations, monthly, in attendance may be gained from the following table:

[Normal school not included in this table.]

| Months. | Pupils on the rolls
the last day of each
month. | | | Average number
to the teacher. | | | Average number of
pupils enrolled each
month. | | | Average number
to the teacher. | | |
|----------------|---|-----------|-----------|-----------------------------------|-----------|-----------|---|-----------|-----------|-----------------------------------|-----------|-----------|
| | 1886-'87. | 1887-'88. | Increase. | 1886-'87. | 1887-'88. | Increase. | 1886-'87. | 1887-'88. | Increase. | 1886-'87. | 1887-'88. | Increase. |
| September..... | 8,994 | 9,413 | 419 | 51 | 55 | 4 | 8,627 | 9,056 | 429 | 49 | 53 | 4 |
| October..... | 9,091 | 9,645 | 554 | 52 | 56 | 4 | 9,184 | 9,686 | 502 | 52 | 57 | 5 |
| November..... | 9,018 | 9,423 | 405 | 51 | 55 | 4 | 9,122 | 9,676 | 554 | 52 | 56 | 4 |
| December..... | 8,479 | 8,687 | 208 | 48 | 51 | 3 | 8,798 | 9,092 | 294 | 50 | 53 | 3 |
| January..... | 8,438 | 8,532 | 94 | 48 | 50 | 2 | 8,558 | 8,707 | 149 | 49 | 51 | 2 |
| February..... | 8,391 | 8,413 | 22 | 48 | 50 | 2 | 8,383 | 8,477 | 94 | 48 | 50 | 2 |
| March..... | 8,154 | 8,222 | 68 | 46 | 49 | 3 | 8,228 | 8,319 | 91 | 47 | 49 | 2 |
| April..... | 7,926 | 8,182 | 256 | 45 | 48 | 3 | 8,069 | 8,224 | 155 | 46 | 49 | 3 |
| May..... | 7,633 | 7,937 | 304 | 43 | 47 | 4 | 7,699 | 8,108 | 409 | 44 | 48 | 4 |
| June..... | 7,412 | 7,806 | 394 | 42 | 46 | 4 | 7,463 | 7,889 | 426 | 42 | 47 | 5 |

In October, the month showing the largest number of pupils on roll the last day of the month, there were 9,645; in June, the month showing the least number, there were 7,806, a decrease of 1,839. After October there was a constant monthly decrease to the close of the school year. This decrease averaged 230 for the period. The greatest difference between any two consecutive months was that of 736 between November and December. This was an unusually large difference, and was attributed to the prevalence of measles, particularly in the schools of lowest grades.

As already intimated, this fluctuation tends to decrease with the increasing age of the schools. It is, however, subject, more or less, to the varying pecuniary condition of the school population. Very much of it, therefore, is unavoidable, in the large degree of poverty that exists. Much is unavoidable in physical causes, as in the last year, in the occasional prevalence of those contagious ailments to which children are largely susceptible. Notwithstanding these causes, there is reason to believe that, to some extent, it is due to want of proper appreciation of the benefits offered by the schools.

The following table shows the number, per cent., and average age of boys and girls enrolled in each grade, November 30, 1887:

MALES.

| Grade. | Seventh division. | | | Eighth division. | | | Total. | Per cent. | Average age. |
|---------------------|-------------------|-----------|--------------|------------------|-----------|--------------|--------|-----------|--------------|
| | Number. | Per cent. | Average age. | Number. | Per cent. | Average age. | | | |
| First | 554 | 31.1 | 8.0 | 764 | 35.1 | 8.1 | 1,318 | 32.4 | 8.1 |
| Second | 390 | 21.9 | 9.5 | 483 | 22.2 | 9.5 | 873 | 21.6 | 9.5 |
| Third | 290 | 16.3 | 10.9 | 323 | 14.8 | 10.9 | 613 | 15.2 | 10.9 |
| Fourth | 213 | 12.0 | 11.7 | 245 | 11.2 | 12.0 | 458 | 11.3 | 11.8 |
| Fifth | 156 | 8.8 | 12.8 | 203 | 9.3 | 12.7 | 359 | 8.9 | 12.7 |
| Sixth | 102 | 5.7 | 13.5 | 79 | 3.6 | 13.8 | 181 | 4.5 | 13.6 |
| Seventh | 49 | 2.8 | 14.2 | 46 | 2.1 | 14.2 | 95 | 2.4 | 14.2 |
| Eighth | 25 | 1.4 | 14.9 | 36 | 1.7 | 14.9 | 61 | 1.5 | 14.9 |
| High School | | | | | | | 68 | 1.7 | 17.1 |
| Normal School | | | | | | | 2 | .5 | 19.0 |
| Total | | | | | | | 4,028 | | |

FEMALES.

| Grade. | Seventh division. | | | Eighth division. | | | Total. | Per cent. | Average age. | Grand total. | Per cent. | Average age. |
|---------------------|-------------------|-----------|--------------|------------------|-----------|--------------|--------|-----------|--------------|--------------|-----------|--------------|
| | Number. | Per cent. | Average age. | Number. | Per cent. | Average age. | | | | | | |
| First | 514 | 22.5 | 8.0 | 782 | 27.2 | 8.0 | 1,296 | 23.9 | 8.0 | 2,614 | 27.6 | 8.0 |
| Second | 444 | 19.4 | 9.4 | 621 | 21.6 | 9.3 | 1,065 | 19.6 | 9.3 | 1,938 | 20.5 | 9.4 |
| Third | 383 | 16.8 | 10.7 | 432 | 15.1 | 10.8 | 815 | 15.0 | 10.8 | 1,428 | 15.1 | 10.8 |
| Fourth | 286 | 12.5 | 12.0 | 339 | 11.8 | 11.6 | 625 | 11.5 | 11.7 | 1,083 | 11.4 | 11.8 |
| Fifth | 260 | 11.4 | 13.0 | 294 | 10.2 | 12.8 | 554 | 10.2 | 12.9 | 913 | 9.6 | 12.8 |
| Sixth | 176 | 7.7 | 13.7 | 189 | 6.6 | 13.7 | 365 | 6.7 | 13.7 | 546 | 5.8 | 13.7 |
| Seventh | 122 | 5.4 | 14.5 | 122 | 4.3 | 14.4 | 244 | 4.5 | 14.5 | 339 | 3.6 | 14.5 |
| Eighth | 99 | 4.3 | 15.4 | 93 | 3.2 | 15.3 | 192 | 3.5 | 15.3 | 253 | 2.7 | 15.2 |
| High School | | | | | | | 241 | 4.4 | 17.0 | 309 | 3.3 | 17.0 |
| Normal School | | | | | | | 37 | .7 | 19.1 | 39 | .4 | 19.1 |
| Total | | | | | | | 5,434 | | | 9,462 | | |

On the last day of November there were enrolled 4,028 boys and 5,434 girls. In the first four grades, or what are usually termed primary schools, there were enrolled 3,262 boys and 3,801 girls. In these four grades a comparison of the enrollment of each sex with the whole number of that sex of the legal school ages will show but slight difference in the proportion. In the second four grades, or the grammar schools, the enrollment of boys was 696 and of girls 1,355, about two of the latter to one of the former. In grades above the grammar schools there were 70 boys and 278 girls. The enrollment of boys decreases very markedly as the grade advances.

The average age of pupils in each grade at the time named was as follows:

| | Years. | | Years. |
|--------------------|--------|---------------------|--------|
| First grade | 8.0 | Sixth grade | 13.7 |
| Second grade | 9.4 | Seventh grade | 14.5 |
| Third grade | 10.8 | Eighth grade | 15.2 |
| Fourth grade | 11.8 | High School | 17.0 |
| Fifth grade | 12.8 | Normal School | 19.1 |

These ages are very probably larger than those for corresponding grades in the other public schools of the city. In the advanced age at which many of these children enter school lies the cause. The causes for later entrance are readily suggested by consideration of the greater degree of circumstances in life unfavorable to earlier and more seasonable entrance.

The following table shows the entire and the average enrollment of pupils, and the number of pupils in daily attendance, each with per cent. of increase, and the percentage of attendance, based on the average enrollment, for the last ten years :

[Normal School not included in this table.]

| Years. | Whole number enrolled. | Per cent. of increase. | Average number enrolled. | Per cent. of increase. | Average number in daily attendance. | Per cent. of increase. | Per cent. of attendance. |
|----------------|------------------------|------------------------|--------------------------|------------------------|-------------------------------------|------------------------|--------------------------|
| 1878-'79 | 7,731 | 18.66 | 6,285 | 11.25 | 6,128 | 10.91 | 97.6 |
| 1879-'80 | 8,061 | 4.26 | 6,573 | 4.58 | 6,412 | 4.63 | 97.4 |
| 1880-'81 | 8,146 | 1.05 | 6,567 | ..... | 6,342 | ..... | 96.6 |
| 1881-'82 | 8,289 | 1.75 | 6,763 | 2.98 | 6,536 | 3.05 | 96.7 |
| 1882-'83 | 8,710 | 5.07 | 7,070 | 4.53 | 6,815 | 4.26 | 96.2 |
| 1883-'84 | 9,167 | 5.24 | 7,225 | 2.19 | 6,895 | 1.17 | 95.5 |
| 1884-'85 | 9,598 | 4.70 | 7,689 | 6.42 | 7,287 | 5.68 | 94.9 |
| 1885-'86 | 10,138 | 5.62 | 8,191 | 6.52 | 7,756 | 6.43 | 94.6 |
| 1886-'87 | 10,345 | 2.04 | 8,448 | 3.13 | 7,956 | 2.57 | 94.2 |
| 1887-'88 | 11,600 | 6.33 | 8,754 | 3.62 | 8,266 | 3.89 | 94.4 |

DISCIPLINE.

In the school year 1886-'87 the cases of suspension were 187 and the cases of corporal punishment 110. In 1887-'88 there were, respectively, 226 and 78, an increase of 39 in the former, and in the latter a decrease of 32. The number dismissed was 9.

The following table shows the number of cases of suspension, the number of cases of corporal punishment, and the number of cases of dismissal for each of the last ten years; also in each item the number of cases to every 100 of the average number of pupils enrolled:

[Normal School not included in this table.]

| Years. | Average enrollment of pupils. | Corporal punishment. | | Suspension. | | Number of cases of dismissal. | Tardiness. | |
|----------------|-------------------------------|----------------------|--------------------------------------|------------------|--------------------------------------|-------------------------------|------------------|--------------------------------------|
| | | Number of cases. | Number of cases to every 100 pupils. | Number of cases. | Number of cases to every 100 pupils. | | Number of cases. | Number of cases to every 100 pupils. |
| 1878-'79 | 6,285 | 525 | 8 | 276 | 4 | 82 | 1,044 | 16 |
| 1879-'80 | 6,573 | 663 | 10 | 397 | 6 | 86 | 1,478 | 22 |
| 1880-'81 | 6,567 | 562 | 8 | 437 | 7 | 59 | 1,844 | 28 |
| 1881-'82 | 6,763 | 396 | 6 | 327 | 5 | 23 | 1,759 | 26 |
| 1882-'83 | 7,070 | 157 | 2 | 330 | 4 | 8 | 2,035 | 28 |
| 1883-'84 | 7,225 | 135 | 2 | 346 | 5 | 13 | 2,352 | 32 |
| 1884-'85 | 7,689 | 186 | 2 | 319 | 4 | 8 | 3,462 | 45 |
| 1885-'86 | 8,191 | 159 | 2 | 250 | 3 | 3 | 3,906 | 47 |
| 1886-'87 | 8,448 | 110 | 1 | 187 | 2 | 4 | 3,345 | 39 |
| 1887-'88 | 8,754 | 78 | ..... | 226 | 2 | 9 | 3,720 | 42 |

In the comparison permitted by the tabulated exhibit of these items in the years named, it will be seen that there has been generally a steady degree of improvement from year to year, and marked improvement between the first and the last year of the period embraced.

Notwithstanding the apparent contradictions that might be expected from the large degree of adverse circumstances in life the deportment of pupils in these schools, whether relatively or absolutely considered, is generally of very commendable order.

The habit of punctuality considered in its relations to practical life can not be overestimated. In the earlier years of these schools its want was one of the greatest drawbacks to their efficiency. In one of those years the number of cases to every one hundred pupils of the average enrollment was over nine hundred. By persistent and judicious action this evil has been very greatly lessened, and in the comparatively few cases from year to year there is indication that a good degree of permanence in the habit of punctual attendance has been attained. The number of cases of tardiness for the year was 3,720, or 42 for every one hundred pupils of the average enrollment.

In the improved and improving material surroundings—through the better accommodation that is being provided, with its means, through proper ventilation, heating, seating, and other essentials for promoting the health and physical comforts of pupils—lies a potential factor for securing and maintaining efficient discipline.

COURSE OF STUDY.

The revised course of study adopted by the board of trustees October 21, 1887, was put into effect. In detail, suggestion, and direction, the work for each grade is clearly and fully indicated. Covering a series of years, with each subsequent year closely connected in aim, plan, and continued pursuit of study with the preceding, and each forming but a part of the perfected whole, time necessarily becomes a large factor in the ascertainment of what it may be most capable. The first year of its working has been satisfactory.

The course from the very outset indicates and suggests work in *language*, which, in extent, character, and variety, so fully tends to training to the proper use of words and to the correct use of grammatical forms as to give to the pupil power to use the language properly, even should he not have the opportunity to study grammar for the principles which govern the construction and use of language. Faithful and intelligent effort can not fail of good results.

In the composition work there was improvement, and particularly in the lower grades. The ease and degree of correctness with which many of the pupils of the lowest grades expressed themselves orally and in writing were very gratifying. There is yet, however, large tendency to suppress thought in the multiplicity of words, showing that too great emphasis can not be placed upon the oft stated fact, that, in importance, thought is first, and that language is simply the means for its expression.

The force of habit in the use of incorrect forms of language is very great among the children who attend these schools, as would be naturally inferred from a knowledge of their surroundings. The remedy, of course, is to train to the opposite habit; and as correct forms of language are to be acquired only by practice, it is clear that the work of the teacher lies in giving frequent occasions to the pupil for using

those forms of language in which he is apt to err, and to practice him in the correct forms until he uses them from force of habit. The attainment of excellent results in these schools requires efforts, frequent and great, beginning at the very threshold of the child's school life and continuing till its close, to counteract the obstacles to such accomplishment always present in the largely illiterate home. The relaxation of such efforts can be safe only when such agencies for the removal of the causes will, in their efficiency, find full fruition in the fitness of those who shall make the home of the future.

In *reading* there was more supplementary matter used than during any previous year, and to good effect. In the schools of first grade supplementary reading matter of considerable variety, which had been made up and hektographed in sufficient quantity to afford quite large provision for classes, was used. In addition to it, much was furnished by teachers themselves, through the purchase of printed tablets of matter suited to the grade. In other grades, books for supplementary reading were provided for the schools at public expense. In the ease and naturalness of expression, which indicate proper understanding of the matter read, there was commendable progress, and more especially in the schools of lower grade. As indicated by the attention given to it, there seemed less tendency to underestimate the value of reading in itself, when rated with that of other subjects pursued in the grade. The improvement in reading, as a rule, was gratifying. There were not wanting, however, in many instances indistinct enunciation of the elementary sounds. While this fault may be largely the tenacious clinging of the uneducated home, its presence clearly indicates to the teacher the necessity for renewed vigor in efforts through vocal training to remedy it.

During the last few years much improvement has been observed in the subject of *arithmetic*. It is attributed to several causes, prominent among which are more training with objects, especially in the lower grades; longer time upon the simple combinations; introduction of other problems than those found in the text-book; practice in making problems; more independent work; and, in short, more general appreciation of underlying principles and practical application of processes. In many instances, however, there appeared want of ability to determine what operations to apply in the solution of miscellaneous problems, and in some instances, a lack of accuracy even in the simple mechanical operations. It is reasonable, however, to suppose that such instances will be lessened as time progresses, in the present better preparation from the first grade to succeeding grades of the course.

The opinion seems to gain that, in comparison with the time given to other subjects, too much is given to this subject. The time given to arithmetic in the schools below the High School might be reduced by omitting in the grammar schools such portions of the study as are not of most practical value, and by restricting the more difficult treatment of applications to those portions most important in point of utility. Continued and exhaustive treatment of the subject could be left to the High School, where, after the study of auxiliary and allied subjects, clearer insight into principles, greater power from further mental development, and maturer judgment, consequent upon increased age, would greatly facilitate mastery of the subject. In the opportunity for more thorough grounding in those subjects of arithmetic most required in the active business transactions of life, favored by lessened grade matter, not only

those who may be graduated from the grammar-school course, but many others, whose necessities do not permit completion of that course, would go forth from the schools with a more practical knowledge of the subject.

In *geography* and *history* results have been good in proportion to the amount of collateral reading employed. The school libraries have, to some extent, furnished the supplementary matter. In the want, however, of sufficient variety of such books, and of each kind in sufficient number, to supply the many pupils of which a class is composed, these afford very meager aid. In some instances the home assists, but they are rare. If the great and positive advantages afforded through a liberal supply of books for collateral reading are to be enjoyed in pursuit of these studies, there must be suitable public provision.

The instruction in the other subjects prescribed by the course of study was generally satisfactory in its results.

PROMOTIONS.

As the result of the year's work in instruction in schools of the first eight grades 5,634 pupils were promoted. Of these promotions 4,329 were in the first four years of the course; and 1,305 in the second four years. The per cent. of promotions in the primary schools was 74.7; in the grammar schools, 74.4.

The following table presents the number of pupils promoted, and the number not promoted, with per cent. of promotions for each division, and in each building in the division:

SEVENTH DIVISION.

| Schools. | Eighth grade. | | | Seventh grade. | | | Sixth grade. | | | Fifth grade. | | | Fourth grade. | | | Third grade. | | | Second grade. | | | First grade. | | |
|----------------|---------------|----------------|---------------------|----------------|----------------|---------------------|--------------|----------------|---------------------|--------------|----------------|---------------------|---------------|----------------|---------------------|--------------|----------------|---------------------|---------------|----------------|---------------------|--------------|----------------|---------------------|
| | Promoted. | Not pro-moted. | Per cent. promoted. | Promoted. | Not pro-moted. | Per cent. promoted. | Promoted. | Not pro-moted. | Per cent. promoted. | Promoted. | Not pro-moted. | Per cent. promoted. | Promoted. | Not pro-moted. | Per cent. promoted. | Promoted. | Not pro-moted. | Per cent. promoted. | Promoted. | Not pro-moted. | Per cent. promoted. | Promoted. | Not pro-moted. | Per cent. promoted. |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Sumner..... | 37 | 4 | 90.2 | 57 | 17 | 77.0 | 56 | 37 | 60.2 | 29 | 17 | 63.0 | 52 | ..... | 100.0 | 46 | 8 | 85.1 | 45 | 11 | 80.3 | 43 | 9 | 82.6 |
| Magruder ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 67 | 12 | 84.8 | 46 | 4 | 92.0 | 37 | 10 | 78.7 | 84 | 10 | 89.3 | 78 | 15 | 83.8 |
| Miner ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 44 | 8 | 84.6 | 39 | 6 | 86.8 | 35 | 7 | 83.3 |
| Stevens..... | 30 | 4 | 82.8 | 28 | 4 | 87.5 | 46 | 5 | 90.1 | 66 | 14 | 82.5 | 121 | 18 | 87.0 | 145 | 30 | 82.8 | 142 | 36 | 79.7 | 255 | 93 | 73.2 |
| Garnet* | 14 | 22 | 38.8 | 29 | 9 | 76.3 | 46 | 3 | 93.8 | 80 | 38 | 67.7 | 59 | 27 | 68.6 | 143 | 39 | 73.0 | 104 | 29 | 78.1 | 116 | 83 | 58.2 |
| Wormley† ..... | ..... | ..... | ..... | ..... | ..... | ..... | 25. | 20 | 55.5 | 34 | 8 | 80.9 | 72 | 3 | 96.0 | 68 | 17 | 80.0 | 102 | 38 | 72.8 | 88 | 36 | 70.9 |
| Total..... | 81 | 30 | 72.9 | 114 | 30 | 79.1 | 173 | 65 | 72.6 | 276 | 89 | 75.6 | 350 | 52 | 87.0 | 483 | 112 | 81.0 | 516 | 130 | 79.7 | 615 | 243 | 71.9 |

EIGHTH DIVISION.

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| John F. Cook †..... | 21 | 18 | 53.8 | 27 | 6 | 81.8 | 55 | 27 | 67.0 | 79 | 33 | 70.5 | 100 | 28 | 78.1 | 99 | 34 | 81.9 | 150 | 56 | 70.8 | 163 | 72 | 69.3 |
| Banneker ..... | ..... | ..... | ..... | 24 | 6 | 80.0 | ..... | ..... | ..... | 41 | 4 | 91.1 | 60 | 17 | 77.9 | 79 | 16 | 83.1 | 124 | 25 | 83.2 | 137 | 73 | 65.2 |
| Lincoln..... | 34 | 7 | 82.9 | ..... | ..... | ..... | 32 | 9 | 78.0 | 22 | 16 | 57.8 | 77 | 12 | 84.2 | 69 | 23 | 75.0 | 99 | 31 | 76.1 | 93 | 60 | 60.7 |
| Giddings ..... | ..... | ..... | ..... | 29 | 6 | 82.8 | 33 | 5 | 86.8 | 24 | 16 | 60.0 | 22 | 17 | 56.4 | 35 | 5 | 87.5 | 24 | 20 | 54.5 | 54 | 36 | 54.0 |
| Lovejoy ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 22 | 9 | 70.9 | 7 | 6 | 53.8 | 35 | 2 | 94.5 | 55 | 27 | 67.0 | 75 | 29 | 72.1 |
| Randall § | 22 | 8 | 73.3 | 37 | 5 | 88.0 | 36 | 15 | 70.5 | 72 | 17 | 80.8 | 57 | 31 | 64.7 | 88 | 60 | 59.4 | 174 | 60 | 74.3 | 191 | 85 | 69.2 |
| Anthony Bowen..... | ..... | ..... | ..... | ..... | ..... | ..... | 20 | 17 | 54.0 | 31 | 10 | 75.6 | 42 | 11 | 79.2 | 70 | 11 | 87.6 | 79 | 16 | 83.1 | 107 | 68 | 61.1 |
| Total..... | 77 | 33 | 70.0 | 117 | 23 | 83.5 | 176 | 73 | 70.6 | 291 | 105 | 73.4 | 365 | 122 | 74.9 | 475 | 151 | 75.8 | 705 | 235 | 75.0 | 820 | 423 | 65.9 |

* Includes Tenth and R and Eleventh and R streets northwest. † Includes Chamberlain. ‡ Includes P street and Proctor. § Includes First street southwest.

HIGH SCHOOL.

The whole number of pupils enrolled in this school during the year was 361; the average number enrolled, 287; and the average number in daily attendance, 267. The increase over the preceding year was 85 in the entire enrollment; 54 in the average enrollment, and 49 in the average daily attendance.

The following table gives the whole number of pupils enrolled in the High School from 1880-'81 to 1887-'88, inclusive, as boys and girls:

| Years. | Whole number en-
rolled. | | | Per cent. of
number en-
rolled. | |
|---------------|-----------------------------|--------|--------|---------------------------------------|--------|
| | Boys. | Girls. | Total. | Boys. | Girls. |
| 1880-'81..... | 14 | 61 | 75 | 18.7 | 81.3 |
| 1881-'82..... | 8 | 82 | 90 | 8.9 | 91.1 |
| 1882-'83..... | 9 | 105 | 114 | 7.9 | 92.1 |
| 1883-'84..... | 17 | 110 | 127 | 13.4 | 86.6 |
| 1884-'85..... | 22 | 150 | 172 | 12.8 | 87.2 |
| 1885-'86..... | 37 | 210 | 247 | 14.9 | 85.1 |
| 1886-'87..... | 51 | 225 | 276 | 18.5 | 81.5 |
| 1887-'88..... | 73 | 288 | 361 | 20.2 | 79.8 |

In the period of eight years embraced by the above table there has been a steady growth year after year, showing in the last year named an enrollment almost five times as large as that of the first year. The number of boys enrolled in the last year is five times as great as the number enrolled in the first year.

Though the ratio of boys to girls does not differ materially in the enrollment of the first and the last year named it is gratifying to note a very perceptible gain in the enrollment of boys in 1887-'88 over that of 1886-'87.

The whole number of teachers employed, exclusive of the special teachers in music and drawing, was nine, or one more than in the previous year. It was recommended by this office that in the selection of additional teachers for this school the advantages to be gained from liberal training, special fitness for assigned subjects, and successful experience in teaching be made important factors, in the hope of inaugurating a policy which, if pursued in the future, could not fail greatly to elevate the standard and general character of the school. The good effects of it were visible in the year's work.

Ninety eight pupils, or 68 per cent. of the class, were promoted from the first to the second year. Fifty-two pupils, or 77 per cent. of the class, were promoted from the second to the third year. The per cent. of promotions for the entire school was 77.

The recommendation for a building suitable to the requirements of this school, and more accessibly located with respect to the entire school population, has been an almost annual theme in my past reports, beginning as far back as 1875. The persistence of recommendation is, I feel, fully justified by the pressing needs of the school. In the great lack of facilities the High School of the seventh and eighth divisions is at very great disadvantage when compared with the High School of the first six divisions. In a common course of study the facilities for its pursuit and completion should be at least fairly equal.

I again recommend that a building suitable to high-school uses, sufficiently large to accommodate at least 500 pupils, and of such con

struction as to permit addition in the future to meet the continued growth in numbers, be located at some point that will best serve the convenience of the general school population.

The joint commencement exercises of the High and the Normal School were held June 19, 1888. Remarks were made by Hon. W. B. Webb, president of the Board of Commissioners of the District of Columbia. The address was delivered by Dr. T. G. Steward. The diplomas were presented by the Hon. C. S. Fairchild, Secretary of the Treasury.

The following were graduated from the High School:

Laura G. Arnold, Nancy M. Atwood, Anna D. Bell, Bertie S. Brooks, Annie T. Brown, Maria E. Buckner, Maria A. Chase, Carrie M. N. Crouch, Mary V. Dickerson, Sarah J. Dickerson, Ellen H. Dockett, Susie E. Dyson, Mary F. Geary, Ella Green, Sarah Hall, Sarah E. Jackson, Anna E. Johnson, Jennie A. Jones, Mary A. Jones, Maria A. D. Madry, Mary V. Morton, Lucy J. Moten, Rebecca L. Moten, Mary M. Orme, Florence O. Patterson, Louise E. Pierre, Carrie Pierre, Rebecca Pierson, Lucinda G. Shorter, Jane M. Taylor, Martha J. Thomas, Mary R. Toy, S. Estelle Tucker, Alice J. Tyler, Emma L. Vaughan, Jennie Walker, Mary B. Washington, Katie L. Wayman, Mary A. West, Lydia C. Wilder, Mary M. Wright, Carroll A. Brooks, Frank F. Davis, Clinton C. Fowler, James E. Goodloe, William H. Lewis, Francis D. Smith, James H. Stewart, John E. Syphax, William S. Wormley, James E. Young.

NORMAL SCHOOL.

The relations that this school sustained to the trustees of the Miner fund having terminated at the close of the school year 1886-'87, last year was the first year of entire public school control.

During the few years that have elapsed since the organization of this school its usefulness has been shown most strikingly in the great improvement in the quality, especially of primary teaching. There have already been graduated from it 176 teachers, of whom 121 are now employed in these schools. The value of this trained force, in the direction of general school efficiency, can not be too highly estimated.

The enrollment for the year was 40, of whom 38 were graduated June 19, 1888, the other two having withdrawn. The following is a list of the names of the graduates:

Anne L. B. Alexander, Amaleta Alexander, Medora Allen, Julia M. Alston, Nettie G. Arnold, Mary E. Barney, Narcissa E. C. F. Beale, Annie D. Brooks, Mary E. G. Brown, Marie E. Bowie, Mary E. Clarke, Marie A. Deitz, Sarah L. G. Dickson, Sarah E. Dorsey, Mary M. Dowling, Emily E. Francis, Emma V. George, Celestine Glascoe, Isabel Kinner, Josephine D. Lewis, Marguerita L. Lucas, Fannie Martin, William Anna Nichols, Emma L. Pindle, Maggie B. Saunders, Alice V. Shorter, Sarah E. Smith, Frances A. Smith, Mary A. Stewart, Charlotte V. Stewart, Katie F. Wall, Mary L. Watson, Eulalia Wheeler, Marie I. Williams, Ida C. Winslow, Mary E. Wilson, Henry N. Bowles, Daniel B. Thompson.

I present the following report submitted to this office by the principal:

DEAR SIR: I have the honor to submit the following as a report of the Normal School of the seventh and eighth divisions for the year ending June 30, 1888:

The percentage of attendance shows an increase of 1.6 over the preceding year. The average age was 19.1 years. The number of pupils admitted was 40, of whom 38 were young women and 2 young men. It should be mentioned, however, in this connection that this large increase in the admission to the normal class is hardly justified by practical experience. As the number of graduates largely exceeds the demand for teachers, it awakens an unhealthy competition during the year, which is neither conducive to good morals nor health. It is said by some that the young men and women do not enter the Normal School with the expectation of securing positions in the District, but are anxious for the training received. This has not been my experience, but, on the contrary, each one not receiving a position is sadly disappointed and some are willing to resort to questionable means to achieve the goal desired.

The number of applicants for admission has never exceeded forty-three, and to take forty out of this number certainly does not give much choice. The true intent

of a normal school is not to give instruction in the elementary branches, but to train young women and young men in the skillful teaching of what they already know. But since this art can not be acquired without a clearer and more comprehensive knowledge of the subject taught, it of necessity follows that each graduate must be more thoroughly informed in the elements and principles. The standard for admission should be very high, in order that the very best results may be attained. I therefore recommend that the number be reduced to twenty-five. This would have a most decidedly beneficial effect upon the character and standing of the Normal School students.

The following table gives the number of pupils admitted to the Normal School each year since its connection with the public schools, and other facts relating to them :

| Years. | Entered. | Withdrawn. | Retired. | Died. | Resigned. | Not employed in public schools of the District. | Now teaching in public schools of the District. |
|----------|----------|------------|----------|-------|-----------|---|---|
| 1879-'80 | 19 | | 1 | 1 | 6 | | 11 |
| 1880-'81 | 18 | | 2 | 1 | 3 | 1 | 11 |
| 1881-'82 | 14 | | | | 4 | | 10 |
| 1882-'83 | 25 | 7 | 1 | 1 | 3 | | 13 |
| 1883-'84 | 14 | 1 | | | 3 | | 10 |
| 1884-'85 | 16 | | | 3 | 2 | | 11 |
| 1885-'86 | 20 | | | | 2 | | 18 |
| 1886-'87 | 20 | | 1 | | | 1 | 18 |
| 1887-'88 | 40 | 2 | | | | 19 | 19 |
| Total | 186 | 10 | 5 | 6 | 23 | 21 | 121 |

It will be seen that out of 38 graduates last year but 19 have received appointments.

The course of instruction is that prescribed in October, 1887. It is of one year's duration and arranged as follows :

| Subjects. | No. of hours per week, 1st quarter. | No. of hours per week, 2d quarter. | No. of hours per week, 3d quarter. | No. of hours per week, 4th quarter. |
|----------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Pedagogics | 3 | 2 | 2 | 2 |
| Psychology | 2 | 3 | 2 | 2 |
| Pennmanship | 2 | 1½ | 2 | 1 |
| Reading and spelling | 2 | 2 | 2 | 1 |
| Language | 2 | 3 | 3 | 3 |
| Arithmetic | 2 | 3 | 3 | 2 |
| Physiology and hygiene | 2 | 2 | 2 | 2 |
| School management | 2 | 2 | 2 | 3 |
| Drawing | 2 | 2 | 2 | 2 |
| Music | 1½ | 1½ | 1½ | 1½ |
| Object lessons | 1½ | 1½ | 1½ | 1½ |
| Phonics and printing | 2 | | | 1 |
| History | | | 1 | 1 |
| Geography | | | 1 | 1 |
| Lectures on moral training | 1 | 1 | | |

Each student had not less than six weeks' practical experience under the direct supervision of the principal and practice teachers. Our aim was to make them acquainted with the actual mental condition of the children of the primary grades, and to do so without loss to the children or the formation of bad habits of teaching on their part.

Each student was expected to devote considerable time to private reading under the guidance of the teachers. It was chiefly devoted to the best educational and pedagogic works, reports of which were regularly made to the teachers in charge. Much time was devoted to criticism, conducted by the principal or her assistant, which had been made by members of the class freely, kindly, and judiciously. They were provocative of great good, as the students by virtue of these grew more thoughtful, more enthusiastic, more independent, and less selfish.

"There is no pond so small but reflects the image of God ;" so there is no school but reflects the image of the teacher. Her influence falls as silently as the dew and is as powerful in its penetration. Her spirit, not her commands, is the controlling power of the school-room. How important, then, that she who seeks to become a teacher should desire to be in the highest degree useful to those who are taught. It

is in the first school that the child forms habits of action and thought and feeling that may cling to it through life. How important that she who stands before it as its guide, its leader, should have her heart in the work, her mind well disciplined and filled, and her example a safe pattern for imitation. Her instruction is mainly oral, so that no hard tasks are assigned to disgust the little investigator; she presents but a single difficulty at a time; she proceeds from the known to the unknown, and thus encourages mental activity; she gives frequent reviews, and exercises vigorously all the faculties necessary for any particular task; she encourages and stimulates by appeals to the best and strongest motives, and thus creates a desire to learn—the climax of the teacher's work. Knowledge can not be poured into the mind as a liquid into an empty vessel, nor yet added to as a foreign ingredient, to increase the bulk, but must be assimilated by the mind's own conscious power of action. Consequently, methods of instruction are valuable only in proportion as they incite the learner to conscious effort. "He learns to do by doing." With this idea as a standard, we sought to conduct our students by their personal experience to simple and clear principles based upon the laws governing the growth and development of the human mind, from which they deduced their own methods and criticised those which were given. We found this pre-eminently successful, since it encouraged originality of thought and design.

Our happiness and our usefulness depend upon a sound physical system. Dr. Dio Lewis's system of calisthenics were assiduously practiced and were a great benefit to each pupil. The practical bearing of physiology and hygiene also received considerable attention. Great stress was laid upon the effect of stimulants upon the system, and as a result considerable enthusiasm was aroused in the cause of temperance.

In all the subjects taught great care was taken to show the steps from grade to grade, as frequently the mistake is made by otherwise good teachers of giving lessons in advance of the actual mind status of her school, the teacher often mistaking memory for mind. Schools are established to teach ideas, not words; to develop connected thought, not to cram the mind with rules and definitions. Make haste slowly should be the motto of each teacher, for if the mind does not receive discipline the teacher's work is a failure.

The students were also taught to prepare their lessons for the practice schools and how to establish and maintain discipline.

We are sadly in need of more books of reference. I therefore recommend that this school be provided with such other reference books as may facilitate its work.

Very respectfully,

LUCY E. MOTEN,
Principal.

Mr. G. F. T. COOK,
Superintendent of Public Schools.

INDUSTRIAL INSTRUCTION.

The school for instruction in the use of wood-working tools, located in the latter part of the preceding school year in a small basement room of the Miner building, was about the 1st of January removed to Bethel Hall, on M street, between Sixteenth and Seventeenth streets northwest. At the beginning of the school year a second school of this kind was organized and located temporarily in a basement room of the Banneker building. About the 1st of January it was removed to the Miller building, on H street, between Sixth and Seventh streets northwest. As the buildings to which these schools were transferred afforded suitable accommodation and were provided with ample facilities in work-benches, tools, and other essentials to successful training of this character, the classes were increased from six to twelve pupils. In each school there were fifteen classes, which embraced in the aggregate 360 pupils. Each pupil received weekly two consecutive hours of instruction.

As required by the course of study for bench work, instruction was given as to the correct method of using tools in the working of different kinds of wood; the laying out of work with knife and pencil, using try-square, bevel, and dividers, and working from drawings executed by the pupil himself; the plain and more complex mortise-and-tenon joints,

dovetailing and plain cabinet-making; the making of articles of practical utility for the schools and shops; the putting together of work with brads, nails, screws, and glue; and the care and sharpening of edged tools. There were also talks on wood and other material used in the shops, and on the manufacture of tools.

The following statement from one of the teachers of these schools shows somewhat in detail the course pursued in each school:

After the first twelve lessons, which consisted of learning the names and uses of various tools used in carpentry, each pupil was given a piece of lumber 12 inches long, 2 inches wide, and 1 inch thick, to be dressed in an even thickness and width, and these pieces were then made into bench hooks, of which about 180 were made. Next, each boy was given another piece of wood of the same length, width, and thickness, to make a joint or ship-lap. This was continued until about 180 laps were made. After the laps, material was given with which to make mortise-and-tenon joints, on which the pupils were kept until a sufficient number of joints were satisfactorily made. Next, each boy was given a piece of wood 8 inches long, 2 inches wide, and seven-eighths of an inch thick to make a single dovetail. Having made one perfect single dovetail, he was required to make two, three, four, five, up to six, until about five hundred excellent pieces of joints and dovetails were made by all the boys. The remaining time was employed in making small articles of furniture and in chisel work. In all there were about forty lessons given.

SECOND-YEAR COURSE.

The second-year course, which embraces lathe work, molding, and forging, will be entered upon in the school year 1888-'89, to extent permitted by the appropriation, which, in the reserve of sufficient means for the maintenance of the other industrial departments, will permit only the procuring of a part of the necessary outfit.

Though as yet in its infancy in these schools, this kind of training has been quite satisfactory in its results. It seems to promise much in the future.

As for the studies pursued in the regular school, so for the hand-work in the special schools, aptitudes varied. The progress made by some was excellent, by few poor, by most commendable. In general it was very satisfactory. Whatever may be the opinion as to the wisdom of engrafting this kind of instruction upon the public-school system, the importance of it, under the existing order of things, to this class of the population, can not, in my opinion, be overestimated. Restricted almost wholly by want of opportunity for development of mechanical aptitudes to the most menial pursuits of life, with their scant pecuniary returns and degrading tendencies, the colored youth may perceive, in this public provision, hope for the acquisition of skilled pursuits whose better compensation favors circumstances in life of character uplifting intellectually and morally.

I would recommend that a larger appropriation than that last made be asked, that the outfits of present shops may be completed and instruction of this kind extended.

INSTRUCTION IN COOKING.

The first public provision for instruction in cooking in these schools was made last year. The difficulty experienced in procuring suitable accommodation delayed the organization of such schools until January. Two were organized, one for the girls of the High School and the seventh division; the other for the girls of the eighth division. The former was located at Bethel Hall, the latter at the Miller building. For each

school fifteen classes were formed. Fifteen girls were in each class. The membership of the two schools aggregated 450.

The instruction, which was restricted to plain cooking, was both theoretical and practical, and in housekeeping it was to extent dependent upon the kitchen. Further practical application of the instruction given in the school was encouraged and largely made at the home, to the end that greater skill and proficiency might be gained.

During the two previous years, Mrs. A. L. Woodbury had given free instruction to five classes of girls, of twelve each, from schools in the seventh division, at her school of cookery, on H street between Thirteenth and Fourteenth streets. The continuance of the gratuity on her part during the last year provided for the instruction of sixty more in cookery, and increased the aggregate in the enjoyment of such benefits to 510.

I would also bear cheerful and grateful testimony to the continued kind offices of this lady in gratuitously instructing and specially preparing for their work the two teachers in charge of the two schools of public provision.

INSTRUCTION IN SEWING.

Shortly after the beginning of the school year the trustees of the Miner fund offered the services of a teacher for the introduction of sewing into the schools. The offer was accepted. The services of Mrs. E. A. Power, of considerable experience as a teacher of sewing in the Boston public schools, were secured. The teacher entered upon the discharge of the duties of the position about the 1st of January, and continued to the close of the year. Nine classes of girls were formed in the Lincoln, Giddings, Randall, and Anthony Bowen buildings, which aggregated about 450 pupils. Each class received two lessons per week. The time given to each lesson was one hour. The results of this instruction were highly gratifying in character and full of promise.

As showing the need for instruction of this kind, the interest manifested, and the progress made, I give the following statement from a report made by the teacher :

When I took the schools under my charge I found the children, in a great majority, ignorant of the rudiments of sewing, but I also found much interest manifested by them and willingness on their part to learn. I have taught the children four kinds of sewing—back-stitching, overcasting, hemming, and top-sewing or seaming. I am much encouraged by the improvement made in these lessons.

INDUSTRIAL EXHIBITION.

An industrial exhibition of the schools of these two divisions was held at the Miner building June 15, 16, and 18, 1888. At this exhibition all the departments of manual training were represented.

In the assembly hall were displayed the drawing, modeling in clay, folding, cutting, and construction in paper and construction in splints, in great quantity and variety from all grades of school. In this department every pupil in the schools was represented. The modelings in clay were almost wholly made from original designs. During the hours of the exhibition there were kept constantly at work in modeling in clay, paper folding and cutting, and construction in paper, classes of every grade of school, exemplifying what is required by the course of study.

The normal exhibit, which occupied one of the rooms, embraced the following; various devices for teaching reading, number, language,

spelling, object lessons, and geography in primary grades, and illustrative methods for teaching arithmetic, grammar, and history in the grammar grades; a graded course in supplementary reading, which was largely original composition prepared by the normal class; compositions by little ones in first, second, and third grades; various specimens of busy work; modeling in clay, paper folding, and stick laying of the primary grades. Illustrative lessons were given by members of the normal class to a class of pupils from the training school in various studies. All illustrative work was such as had been used by them in their practice.

The exhibits of the two shops in wood-work occupied one room. The display of plain and more complex mortise-and-tenon joints, dove-tailing, articles of plain cabinet making and of practical utility was quite large.

Another school-room was converted into a kitchen, where, in addition to an exhibit of many articles cooked by pupils at their homes, classes under the supervision of their teachers gave, at specified hours during the exhibition, practical demonstration of the instruction received in the cooking schools.

The sewing exhibits, which occupied two school rooms, embraced very many articles, such as aprons, bags, pillow-slips, table-cloths, towels, sweeping caps, undergarments, skirts, dresses, and basques. Classes were also under instruction of the teacher, at specified hours during the exhibition, in exemplification of the method pursued in the schools.

The High School, in addition to varied school-work in compositions and examination papers in several of the subjects pursued in that school, and drawing, modeling in clay, and constructions in paper, which were displayed in the assembly hall, had in one of the school-rooms an excellent exhibit in the department of physics, the main features of which were an exhibit of the methods of supplying cities with water, of the application of the principles of ventilation to mining, and of electricity to electric lighting and telegraphy. There were also classes engaged in different experiments in physics during the hours of the exhibition.

The remaining two rooms contained exhibits of general school-work, principally in composition and other language work, penmanship, and map-drawing from the schools of the first eight grades.

NIGHT SCHOOLS.

That as many as possible might share the benefits of the appropriation for night schools, five schools, or one more than in the previous year, were opened. Two of them were located in the seventh and three in the eighth division: in the former, at the Stevens and Garnet; in the latter, at the John F. Cook, Lincoln, and Randall buildings. All the seats were taken during the first week, and admission was necessarily denied to many who sought it.

The whole number of pupils enrolled was 1,053. The average enrollment was 738, and the average nightly attendance 650. The large majority of pupils were in the lowest grades.

The number of teachers employed was 20—1 principal and 3 assistants to each of the five schools. As required by the appropriation act, they were all taken from the day school service.

The instruction embraced reading, penmanship, arithmetic, language, including letter and business forms, United States history and geography connected with it. In addition, there were occasional talks upon hygiene and civil government.

To the extent opportunity for accomplishment is offered, the work done in the schools was good. The number of sessions was only fifty-one; and as each of the sessions is limited to two hours, the whole number of hours for instruction was one hundred and two, or about twenty school days. The time is entirely too little for the attainment of very appreciable results. A larger appropriation, not only to embrace greater numbers, but also to permit adequate time for instruction, is much needed.

The entire expenditure for these schools was \$2,295, or an average of \$45 per night. The cost per capita upon the average enrollment was \$3.10; on the average nightly attendance, \$3.53.

The following table shows the whole number enrolled, the average number enrolled, the average nightly attendance, the per cent. of attendance, the number of evenings, number of teachers, and the cost:

| Schools. | Whole number enrolled. | Average number enrolled. | Average number in attendance. | Percentage of attendance. | Time. | | Number of teachers. | Cost per evening. | Entire cost. |
|--------------------|------------------------|--------------------------|-------------------------------|---------------------------|---------------------|------------------|---------------------|-------------------|--------------|
| | | | | | Number of evenings. | Number of hours. | | | |
| Stevens | 186 | 151 | 133 | 88.0 | 51 | 102 | 4 | \$9 | \$459 |
| Garnet | 208 | 128 | 107 | 83.5 | 51 | 102 | 4 | 9 | 459 |
| John F. Cook | 219 | 156 | 142 | 90.7 | 51 | 102 | 4 | 9 | 459 |
| Lincoln | 227 | 152 | 134 | 88.4 | 51 | 102 | 4 | 9 | 459 |
| Randall | 213 | 151 | 134 | 88.5 | 51 | 102 | 4 | 9 | 459 |
| Total | 1,053 | 738 | 650 | ..... | ..... | ..... | 20 | 45 | 2,295 |

That these schools may be made to do an excellent work in serving the educational interests of a large portion of this population is patent from the fact that there are many youth whose circumstances in life prevent attendance upon the day schools. In the large absence of schools of this character in the past, and the too limited provision at present, the number of youth so circumstanced is not only large but constantly increasing.

The need of this public provision, especially for this class of the population, can hardly be more forcibly presented than by figures from the United States census of 1880. At the time of the taking of that census the number of persons, white and colored, fifteen years of age and upwards in the District of Columbia unable to write was 24,397, of whom 20,937 were colored. The per cent. of the colored population from fifteen to twenty years of age, both inclusive, unable to write was 22.8; and of that twenty-one years of age and upwards 59.3; while for the same periods the per cents. of the white population unable to write were, respectively, 1.4 and 5.4; or, in other words, there are sixteen times as many colored persons of ages from fifteen to twenty-one years unable to write as white persons of same ages unable to write; and eleven times as many colored persons of twenty-one years of age and upwards as white persons of same ages unable to write.

TEACHERS.

There were in all 191 teachers, of whom 178 were female and 13 male. The increase over the previous year was 9. Of the whole number of teachers employed 102 had been specially trained in normal schools for

the position, and of the remainder all, with but two or three exceptions, had not had less than five years' experience in teaching.

The aggregate days absence of teachers from school was 415, or 86 days less than in the previous year. Generally this absence on the part of the individual teacher was but for a short period—thus promising less injury to the school from the interrupted service of the regular teacher. The average absence to the teacher was 2.2 days.

As a rule, the devotion of the teacher to her school and work was very commendable, and the service rendered efficient.

The following tabulated statement permits convenient reference to the more important statistics :

| | Normal School. | High School. | Seventh division. | Eighth division. | Total. |
|--|----------------|--------------|-------------------|------------------|----------|
| Number of pupils enrolled | 40 | 361 | 4,730 | 5,909 | 11,040 |
| Average number of pupils enrolled | 37 | 287 | 3,763 | 4,704 | 8,791 |
| Average number of pupils in daily attendance | 36 | 267 | 3,546 | 4,453 | 8,302 |
| Percentage of attendance | 97.9 | 92.8 | 94.2 | 94.6 | 94.4 |
| Average number of tardinesses per month | | 5.5 | 202.6 | 133.8 | 341.9 |
| Number of pupils dismissed | | | 5 | 4 | 9 |
| Number of cases of corporal punishment | | | 38 | 40 | 78 |
| Number of teachers employed, excluding special teachers and supervising principals | 3 | 9 | 76 | 94 | 182 |
| Average salary paid to the teacher | \$955.00 | \$1,074.44 | \$592.09 | \$581.13 | \$616.26 |
| Average number of pupils to the teacher (estimated on the average enrollment) | 12 | 32 | 49 | 50 | 48 |
| Cost of tuition per pupil (estimated on the average enrollment) | \$77.43 | \$33.69 | \$11.95 | \$11.61 | \$12.75 |

* Includes the \$700 provided for in the deficiency bill.

Special teachers.

| | Number of teachers. | Salary paid. | Average salary paid. | Cost of tuition estimated on the average enrollment. |
|---------------------------|---------------------|--------------|----------------------|--|
| Drawing | 1 | \$1,100 | \$1,100.00 | \$0.12 |
| Music | 2 | 1,600 | 800.00 | .18 |
| Manual training | 2 | 1,060 | 530.00 | .12 |
| Cooking school | 2 | 600 | 300.00 | .07 |
| Total | 7 | 4,360 | 622.85 | .49 |

Supervision.

| | |
|--|------------|
| Superintendent | \$2,250.00 |
| Clerk | 800.00 |
| Supervising principals, two, at \$2,000 | 4,000.00 |
| Messenger to superintendent | 200.00 |
| Total cost of supervision | 7,250.00 |
| Average cost (estimated on the average enrollment) | .82 |

The entire amount expended for supervision and instruction was \$123,769.88. The average cost per pupil for supervision and instruction, estimated on average enrollment, was \$14.08. As the accounts for the contingent expenses of the public schools of the District of Columbia are not kept so as to show the expenditures for each division no statement can be made showing the contingent expenses of these two divisions.

ACCOMMODATION.

The accommodation for these schools may be considered as to its extent, its character, and its increase. It embraces twenty-two buildings,

of which thirteen are owned. These buildings present erections in the 1860's, when ill conditions more or less prevailed, partly from lack of financial means and partly from want of the knowledge and experience of which the improved school architecture of to-day is the outgrowth, to the 1880's, in which growth and progression toward more complete fitness for ends are prominent characteristics. Types of the former are to be found in the Chamberlain and Anthony Bowen buildings; of the latter, in the Garnet and Giddings buildings. These owned buildings provide in the aggregate one hundred and twenty-nine school rooms, each with degree of adaptability to school use determined by degree of constructive fitness of the building in which it is located. These school-rooms may be classified as good, fair, and poor, the last-named class showing a degree of unfitness for use whose occupancy can be tolerated only by the alternative of no accommodation. Of the first named there are seventy-seven; of the second, thirty six; and of the third, sixteen.

The remaining nine buildings are rented, of which one only was originally constructed for schools. The exception is the Miner building. It is well adapted to school purposes. The other rented buildings present to a greater or less extent all the ill conditions to be found in the poorest of the owned buildings. These rented buildings give twenty-eight school-rooms, of which eleven are good, ten are fair, and seven are poor.

The following table shows the school buildings, owned and rented, the number of school-rooms in each, and condition of same, the number of sittings, the number of single and double desks, the whole number of schools in each building, and the number of rooms each used by two schools:

| Buildings. | Brick or wood. | Owned or rented. | Number of school-rooms. | Condition of rooms. | | | Number of sittings. | Desks. | | Whole number of schools. | Number of rooms each used by two schools. |
|-----------------------------------|----------------|------------------|-------------------------|---------------------|-------|-------|---------------------|---------|---------|--------------------------|---|
| | | | | Good. | Fair. | Poor. | | Single. | Double. | | |
| Sumner | Brick... | Owned... | 10 | 10 | .. | .. | 595 | 595 | .. | 10 | .. |
| Stevens | do | do | 19 | 7 | 8 | 4 | 1,097 | 919 | 89 | 24 | 5 |
| Miner | do | Rented .. | 11 | 11 | .. | .. | 510 | 510 | .. | *4 | .. |
| Magruder | do | Owned... | 8 | 8 | .. | .. | 348 | 348 | .. | 19 | 2 |
| Wormley | do | do | 8 | 8 | .. | .. | 432 | 432 | .. | 10 | 2 |
| Garnet | do | do | 12 | 12 | .. | .. | 633 | 633 | .. | 15 | 3 |
| Tenth and R sts. N. W. | do | Rented .. | 1 | .. | 1 | .. | 61 | 61 | .. | 2 | 1 |
| Eleventh and R streets northwest. | do | do | 2 | .. | 2 | .. | 120 | 120 | .. | 3 | 1 |
| Chamberlain | do | Owned... | 8 | .. | .. | 8 | 112 | .. | 56 | 2 | .. |
| Bethel Hall | do | Rented .. | 2 | .. | 2 | .. | .. | .. | .. | 52 | .. |
| John F. Cook | do | Owned... | 11 | 8 | 1 | 2 | 562 | 562 | .. | 10 | .. |
| Proctor | do | Rented .. | 4 | .. | .. | 4 | 221 | 1 | 110 | 8 | 4 |
| P and Columbia streets. | do | do | 2 | .. | 2 | .. | 105 | 105 | .. | 3 | 1 |
| Banneker | do | Owned... | 8 | 8 | .. | .. | 462 | 462 | .. | 10 | 2 |
| Miller | do | Rented .. | 4 | .. | 2 | 2 | 94 | 94 | .. | 55 | 1 |
| Lincoln | do | Owned... | 11 | .. | 11 | .. | 622 | 622 | .. | 13 | 2 |
| Lovejoy | do | do | 6 | .. | 6 | .. | 356 | 104 | 126 | 6 | .. |
| Randall | do | do | 12 | 8 | 2 | 2 | 713 | 713 | .. | 20 | 8 |
| Anthony Bowen | do | do | 8 | .. | 8 | .. | 430 | 190 | 120 | 11 | 3 |
| First, between N and O southwest. | Wood.. | Rented .. | 1 | .. | .. | 1 | 54 | .. | 27 | 1 | .. |
| Giddings | Brick .. | Owned... | 8 | 8 | .. | .. | 396 | 396 | .. | 8 | .. |
| Miner Institute | do | Rented .. | 1 | .. | 1 | .. | 42 | 42 | .. | 11 | .. |
| Total | | | 157 | 88 | 46 | 23 | 7,965 | 6,909 | 528 | 177 | 35 |

* Includes High School.

† Includes Normal School.

‡ Six rooms not used.

§ Two industrial schools.

|| Teacher supported by the Miner fund.

The great educative power of environment can not be questioned. The welfare of the child is inseparately connected with its surroundings. The education of bad school environment can not with impunity be lightly estimated, even by those whose home surroundings are in tendency strongly counter-educative. The very large absence of such counter-educative tendency in very many of the homes of this population* makes this large per cent. of poor accommodation a matter to be deeply deplored. When driven by force of poverty to the most objectionable portions of the city, into its alleys with their crowded tenements, with all their inducements to vice and crime, the child should find in the environments of the school-room those positively educating moral forces that are counteractive of the pernicious educative tendencies of his home and its surroundings.

An exhibit of the material growth of these schools, so far as may be indicated by the number of buildings that have been erected for their accommodation since the year of their establishment, may not only be interesting but instructive. The erection of the first building was begun in 1864, on C street between Second and Third streets southeast. It was a two story frame structure, uninviting in appearance, and containing four rooms, which, if compared with those of recent construction, would be denominated poor. This building was displaced by the Lincoln building in 1871. In addition to the C street building, three other buildings, frame, very indifferent for school purposes and of material abandoned by the United States Government after use during the late war, gave way to the Sumner, Lovejoy, and Randall buildings, respectively, in 1872, 1872, and 1876.

The following table shows the number of school buildings and school-rooms owned and rented since 1864.

| Years. | Buildings. | | | Rooms. | | |
|--------|------------|---------|--------|--------|---------|--------|
| | Owned. | Rented. | Total. | Owned. | Rented. | Total. |
| 1864 | | 1 | 1 | | 1 | 1 |
| 1865 | 1 | | 1 | 4 | | 4 |
| 1866 | 1 | | 1 | 4 | | 4 |
| 1867 | 1 | | 1 | 4 | | 4 |
| 1868 | 7 | | 7 | 42 | | 42 |
| 1869 | 8 | 2 | 10 | 54 | 2 | 56 |
| 1870 | 8 | 2 | 10 | 56 | 2 | 58 |
| 1871 | 8 | 7 | 15 | 56 | 9 | 65 |
| 1872 | 9 | 3 | 12 | 72 | 4 | 76 |
| 1873 | 9 | 5 | 14 | 78 | 8 | 86 |
| 1874 | 9 | 4 | 13 | 76 | 8 | 84 |
| 1875 | 9 | 4 | 13 | 76 | 8 | 84 |
| 1876 | 9 | 5 | 14 | 76 | 9 | 85 |
| 1877 | 9 | 3 | 12 | 80 | 7 | 87 |
| 1878 | 9 | 4 | 13 | 76 | 21 | 97 |
| 1879 | 9 | 6 | 15 | 77 | 23 | 100 |
| 1880 | 9 | 6 | 15 | 78 | 24 | 102 |
| 1881 | 9 | 6 | 15 | 78 | 24 | 102 |
| 1882 | 9 | 3 | 12 | 87 | 19 | 106 |
| 1883 | 9 | 3 | 12 | 87 | 19 | 106 |
| 1884 | 10 | 2 | 12 | 95 | 15 | 110 |
| 1885 | 10 | 2 | 12 | 95 | 15 | 110 |
| 1886* | 12 | 4 | 16 | 114 | 17 | 131 |
| 1887 | 11 | 4 | 15 | 112 | 17 | 129 |
| 1888 | 13 | 9 | 22 | 129 | 28 | 157 |

* Building owned by first six divisions, given up at end of the school year.

The buildings at present owned, and occupied by these schools in 1887-'88, include all of the owned buildings indicated in the period embraced by the above table, except the four that were displaced by the Lincoln, Sumner, Lovejoy, and Randall, already referred to, the old John F. Cook building, destroyed by fire in 1876, but afterwards re-erected, a one story frame of two rooms on the corner of Eighteenth and B streets southeast, that was abandoned, and the two-story brick on the corner of Fourteenth and Q streets northwest, which, though occupied by these schools in 1885-'86, belonged to the schools of the first six divisions.

The most urgent need for other accommodation than that promised by the appropriation for the current year is in the northwestern part of the seventh and in the northern part of the eighth division. In view of these needs I would recommend that in each of these sections a school building of not less than eight rooms be located.

HALF-DAY SCHOOLS.

There were seventy schools of half-day session. This reduced time in the session of the school is necessitated by the want of accommodation, which requires that one school occupy the room during the forenoon and another in the afternoon.

There were enrolled in these half-day schools nearly four thousand children. The average time daily to the school was about three hours, which is only three-fifths of the time prescribed by the rules of the board for schools above the second grade.

For obvious reasons, some of which I have heretofore given, I am firmly of the opinion that not more than one school should occupy the same room. The disadvantages of joint occupancy, through lack of time and want of facilities to permit that degree of self-activity on the part of the pupil so essential to proper mental development, are great to both schools, and more particularly to that school whose session is restricted to the latter part of the day.

There were in such schools of first and second grades more than three thousand pupils, or about one-third of the entire enrollment in schools of all grades. The injury inflicted at this more formative and susceptible period of school life is, in many instances, intensified in its bad effects in the successive years of school life. In the higher grades of such schools, where increased grade requirement demands yet greater time, the most satisfactory results are impossible of attainment.

NON-ATTENDANTS.

The difference between the whole number of pupils enrolled in the schools and the number of seats is about three thousand. To accommodate properly the present per cent. of the school population enrolled, by giving to each pupil the exclusive use of a seat, will require large additional provision.

In a comparison in another part of this report, between the school population and its enrollment, it was shown that there were, at the time of the taking of that census, about 4,500 children of school ages, or 30 per cent. of the school population that were non-attendants. In any consideration whatever of the enrollment of this population, the first is necessarily that of its accommodation. To enroll it, by compulsory means or otherwise, would require very large additional provision.

The fact of the existence of so large a number of children of school ages growing up in ignorance presents also other phases not pleasant to contemplate. They are constantly being educated, but in many instances into vice and crime, thereby adding to the already large number of our vicious and criminal classes.

This large number of non-attendants may be divided into three classes: (1) Those who are partially indifferent; (2) those who are wholly indifferent; and (3) those whose poverty prevents attendance at school. Proper appeals would, with very little difficulty, bring into the schools the first class. The second would, in all probability, require compulsory means. The third, and I believe largest, class presents a problem whose solution is attended with much difficulty.

G. F. T. COOK,
Superintendent.

THE BOARD OF TRUSTEES OF PUBLIC SCHOOLS.

634 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE I.—Summary of monthly statistics of the schools of the seventh and eighth

| Schools. | | Number of pupils from last report. | Admitted by transfer. | Otherwise admitted. | Transferred. | Withdrawn. | Forfeited seat. | Dismissed. | Number on the roll. | Re-entered. | Number present. | Number punctual. | Corporally punished. | Suspended. |
|------------------|----------------------|------------------------------------|-----------------------|---------------------|--------------|------------|-----------------|------------|---------------------|-------------|-----------------|------------------|----------------------|------------|
| September, 1887. | | | | | | | | | | | | | | |
| 1 | Normal School..... | 0 | 37 | 2 | 0 | 1 | 0 | 0 | 38 | 0 | 35 | 35 | 0 | 0 |
| 2 | High School..... | 171 | 138 | 42 | 36 | 1 | 9 | 0 | 305 | 3 | 210 | 210 | 0 | 0 |
| 3 | Seventh division... | 2,755 | 2,332 | 1,367 | 2,384 | 23 | 64 | 0 | 3,983 | 8 | 2,600 | 2,633 | 0 | 2 |
| 4 | Eighth division.... | 3,415 | 2,385 | 1,846 | 2,451 | 23 | 47 | 0 | 5,125 | 1 | 3,760 | 3,728 | 1 | 0 |
| 5 | Total | 6,341 | 4,892 | 3,257 | 4,871 | 48 | 120 | 0 | 9,451 | 12 | 6,665 | 6,606 | 1 | 2 |
| October, 1887. | | | | | | | | | | | | | | |
| 6 | Normal School..... | 38 | 0 | 2 | 0 | 0 | 1 | 0 | 39 | 1 | 35 | 35 | 0 | 0 |
| 7 | High School..... | 305 | 0 | 24 | 0 | 2 | 15 | 0 | 312 | 14 | 173 | 169 | 0 | 0 |
| 8 | Seventh division.... | 3,983 | 311 | 500 | 317 | 41 | 290 | 0 | 4,146 | 181 | 2,354 | 2,249 | 4 | 6 |
| 9 | Eighth division.... | 5,125 | 577 | 488 | 649 | 71 | 283 | 0 | 5,187 | 199 | 3,086 | 3,021 | 5 | 4 |
| 10 | Total | 9,451 | 888 | 1,014 | 966 | 114 | 589 | 0 | 9,684 | 395 | 5,648 | 5,474 | 9 | 10 |
| November, 1887. | | | | | | | | | | | | | | |
| 11 | Normal School..... | 39 | 0 | 1 | 0 | 0 | 1 | 0 | 39 | 1 | 33 | 33 | 0 | 0 |
| 12 | High School..... | 312 | 0 | 13 | 0 | 2 | 14 | 0 | 309 | 12 | 157 | 156 | 0 | 1 |
| 13 | Seventh division.... | 4,146 | 93 | 304 | 110 | 66 | 304 | 0 | 4,063 | 204 | 2,169 | 2,011 | 5 | 28 |
| 14 | Eighth division.... | 5,187 | 52 | 334 | 46 | 87 | 389 | 0 | 5,051 | 221 | 2,848 | 2,746 | 10 | 13 |
| 15 | Total | 9,684 | 145 | 652 | 156 | 155 | 708 | 0 | 9,462 | 438 | 5,207 | 4,946 | 15 | 42 |
| December, 1887. | | | | | | | | | | | | | | |
| 16 | Normal School..... | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 0 | 30 | 30 | 0 | 0 |
| 17 | High School..... | 309 | 0 | 14 | 0 | 5 | 27 | 0 | 291 | 14 | 113 | 113 | 0 | 0 |
| 18 | Seventh division.... | 4,063 | 23 | 200 | 26 | 72 | 514 | 2 | 3,672 | 177 | 1,831 | 1,742 | 2 | 21 |
| 19 | Eighth division.... | 5,051 | 40 | 216 | 46 | 71 | 466 | 0 | 4,724 | 195 | 2,647 | 2,576 | 5 | 8 |
| 20 | Total | 9,462 | 63 | 430 | 72 | 148 | 1,007 | 2 | 8,726 | 386 | 4,621 | 4,461 | 7 | 29 |
| January, 1888. | | | | | | | | | | | | | | |
| 21 | Normal School..... | 39 | 0 | 3 | 0 | 0 | 3 | 0 | 39 | 3 | 33 | 33 | 0 | 0 |
| 22 | High School..... | 291 | 0 | 44 | 0 | 2 | 36 | 0 | 297 | 42 | 108 | 106 | 0 | 0 |
| 23 | Seventh division.... | 3,672 | 71 | 725 | 75 | 89 | 658 | 1 | 3,645 | 635 | 1,412 | 1,336 | 4 | 26 |
| 24 | Eighth division.... | 4,724 | 275 | 709 | 294 | 104 | 719 | 1 | 4,590 | 578 | 1,956 | 1,880 | 7 | 7 |
| 25 | Total | 8,726 | 346 | 1,481 | 369 | 195 | 1,416 | 2 | 8,571 | 1,258 | 3,509 | 3,355 | 11 | 33 |
| February, 1888. | | | | | | | | | | | | | | |
| 26 | Normal School..... | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 0 | 30 | 30 | 0 | 0 |
| 27 | High School..... | 297 | 0 | 17 | 0 | 3 | 22 | 0 | 289 | 17 | 134 | 131 | 0 | 5 |
| 28 | Seventh division.... | 3,645 | 16 | 402 | 18 | 56 | 377 | 0 | 3,612 | 368 | 1,584 | 1,529 | 8 | 21 |
| 29 | Eighth division.... | 4,590 | 30 | 404 | 21 | 84 | 405 | 2 | 4,512 | 362 | 2,149 | 2,090 | 6 | 10 |
| 30 | Total | 8,571 | 46 | 823 | 39 | 143 | 804 | 2 | 8,452 | 747 | 3,897 | 3,780 | 14 | 36 |
| March, 1888. | | | | | | | | | | | | | | |
| 31 | Normal School..... | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 0 | 21 | 21 | 0 | 0 |
| 32 | High School..... | 289 | 0 | 21 | 0 | 0 | 33 | 0 | 277 | 21 | 99 | 98 | 0 | 5 |
| 33 | Seventh division.... | 3,612 | 19 | 379 | 25 | 39 | 416 | 0 | 3,530 | 358 | 1,129 | 1,091 | 7 | 13 |
| 34 | Eighth division.... | 4,512 | 24 | 394 | 14 | 69 | 431 | 1 | 4,415 | 370 | 2,044 | 2,015 | 1 | 12 |
| 35 | Total | 8,452 | 43 | 794 | 39 | 108 | 880 | 1 | 8,261 | 749 | 3,293 | 3,225 | 8 | 30 |
| April, 1888. | | | | | | | | | | | | | | |
| 36 | Normal School..... | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 0 | 24 | 24 | 0 | 0 |
| 37 | High School..... | 277 | 0 | 20 | 0 | 4 | 22 | 0 | 271 | 20 | 105 | 104 | 0 | 0 |
| 38 | Seventh division.... | 3,530 | 12 | 314 | 10 | 66 | 246 | 2 | 3,532 | 291 | 1,650 | 1,578 | 1 | 9 |
| 39 | Eighth division.... | 4,415 | 14 | 313 | 13 | 81 | 269 | 0 | 4,379 | 295 | 2,248 | 2,199 | 1 | 7 |
| 40 | Total | 8,261 | 26 | 647 | 23 | 151 | 537 | 2 | 8,221 | 606 | 4,027 | 3,905 | 2 | 16 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 635

divisions, showing attendance and other facts, for the school year ending June 30, 1888.

| Days school open. | Days school closed. | Aggregate days' attendance. | Aggregate days' absence. | Percentage of attendance. | Average number of pupils enrolled. | Average attendance. | Number of pupils tardy. | Cases of tardiness. | Days teacher absent. | Times teacher tardy. | Visits of parents. | Visits of supervising principal. | Visits of superintendent. | |
|-------------------|---------------------|-----------------------------|--------------------------|---------------------------|------------------------------------|---------------------|-------------------------|---------------------|----------------------|----------------------|--------------------|----------------------------------|---------------------------|----|
| 10 | 0 | 359.0 | 2.0 | 99.4 | 36.1 | 35.9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 10 | 0 | 2,870.5 | 121.5 | 95.9 | 299.2 | 287.0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 2 |
| 770 | 0 | 37,381.0 | 922.0 | 97.5 | 3,830.3 | 3,738.1 | 73 | 73 | 13 | 1 | 56 | 70 | 9 | 3 |
| 925 | 0 | 47,536.5 | 1,231.0 | 97.4 | 4,916.0 | 4,801.6 | 49 | 51 | 24 | 3 | 84 | 134 | 7 | 4 |
| 1,715 | 0 | 88,147.0 | 2,276.5 | 96.3 | 9,091.6 | 8,862.6 | 122 | 124 | 258 | 4 | 144 | 204 | 18 | 5 |
| 21 | 0 | 808.5 | 10.5 | 98.7 | 39.0 | 38.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 21 | 0 | 6,198.5 | 277.5 | 95.7 | 313.1 | 299.9 | 7 | 7 | 0 | 0 | 10 | 0 | 0 | 7 |
| 1,601 | 104 | 82,057.0 | 3,336.5 | 96.1 | 4,125.2 | 3,984.1 | 264 | 292 | 153 | 2 | 160 | 116 | 36 | 9 |
| 1,933 | 20 | 104,754.5 | 3,870.0 | 96.4 | 5,247.5 | 5,060.6 | 172 | 152 | 81 | 12 | 161 | 199 | 32 | 9 |
| 3,576 | 309 | 193,918.5 | 7,494.5 | 96.2 | 9,724.8 | 9,363.1 | 403 | 451 | 24 | 14 | 331 | 315 | 68 | 10 |
| 20 | 0 | 767.0 | 12.0 | 98.4 | 38.9 | 38.3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 11 |
| 20 | 0 | 5,853.0 | 309.5 | 94.9 | 308.1 | 292.6 | 2 | 2 | 0 | 0 | 22 | 0 | 0 | 12 |
| 1,538 | 2 | 80,227.5 | 4,188.0 | 95.0 | 4,241.9 | 4,031.5 | 346 | 400 | 93 | 3 | 162 | 131 | 41 | 13 |
| 1,855 | 6 | 97,152.0 | 4,851.5 | 95.2 | 5,125.8 | 4,882.0 | 211 | 233 | 103 | 5 | 164 | 215 | 52 | 14 |
| 3,434 | 8 | 183,999.5 | 9,361.0 | 95.4 | 9,714.7 | 9,244.4 | 559 | 635 | 201 | 8 | 349 | 346 | 93 | 15 |
| 17 | 0 | 544.0 | 15.0 | 97.3 | 32.8 | 32.0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 16 |
| 17 | 0 | 4,363.0 | 465.0 | 90.3 | 284.0 | 256.6 | 4 | 4 | 0 | 0 | 6 | 0 | 0 | 17 |
| 1,307 | 2 | 61,513.5 | 4,427.5 | 93.2 | 3,901.8 | 3,639.8 | 227 | 243 | 22 | 5 | 162 | 54 | 61 | 18 |
| 1,581 | 0 | 78,077.5 | 4,830.5 | 94.1 | 4,905.7 | 4,619.9 | 163 | 174 | 18 | 7 | 150 | 194 | 131 | 19 |
| 2,922 | 2 | 144,498.0 | 9,738.0 | 93.6 | 9,124.3 | 8,548.3 | 394 | 421 | 40 | 12 | 328 | 248 | 192 | 20 |
| 21 | 0 | 785.0 | 12.0 | 98.4 | 37.9 | 37.3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 21 |
| 21 | 0 | 5,716.5 | 562.5 | 90.9 | 299.0 | 272.2 | 9 | 9 | 0 | 3 | 55 | 0 | 1 | 22 |
| 1,609 | 1 | 71,506.5 | 5,663.0 | 92.6 | 3,710.0 | 3,437.8 | 251 | 294 | 36 | 15 | 221 | 123 | 8 | 23 |
| 1,948 | 0 | 91,246.0 | 6,945.0 | 92.9 | 4,698.1 | 4,365.8 | 205 | 217 | 24 | 10 | 126 | 151 | 21 | 24 |
| 3,599 | 1 | 169,254.0 | 13,182.5 | 92.7 | 8,745.0 | 8,113.1 | 465 | 520 | 60 | 28 | 405 | 274 | 30 | 25 |
| 184 | 1 | 692.0 | 11.0 | 98.4 | 38.0 | 37.4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 26 |
| 184 | 1 | 5,048.0 | 356.0 | 93.4 | 291.1 | 272.8 | 7 | 7 | 2 | 0 | 15 | 0 | 0 | 27 |
| 1,461 | 59 | 65,355.5 | 4,656.0 | 93.3 | 3,646.4 | 3,403.9 | 186 | 203 | 35 | 6 | 324 | 102 | 46 | 28 |
| 1,778 | 61 | 82,155.5 | 5,453.0 | 93.7 | 4,539.3 | 4,256.7 | 161 | 165 | 45 | 2 | 284 | 114 | 87 | 29 |
| 3,276 | 123 | 153,251.0 | 10,476.0 | 93.6 | 8,514.8 | 7,970.8 | 354 | 375 | 84 | 8 | 623 | 216 | 133 | 30 |
| 21 | 0 | 772.0 | 30.0 | 96.2 | 38.1 | 36.7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 31 |
| 204 | 2 | 5,422.0 | 445.5 | 92.5 | 286.2 | 264.4 | 11 | 11 | 0 | 0 | 21 | 0 | 1 | 32 |
| 1,556 | 40 | 66,813.0 | 5,967.0 | 91.8 | 3,567.6 | 3,275.6 | 177 | 191 | 32 | 12 | 287 | 69 | 102 | 33 |
| 1,865 | 67 | 83,138.5 | 7,054.5 | 92.1 | 4,465.0 | 4,115.7 | 158 | 165 | 25 | 11 | 257 | 158 | 108 | 34 |
| 3,462 | 107 | 156,145.5 | 13,497.0 | 92.0 | 8,356.9 | 7,692.4 | 346 | 367 | 59 | 23 | 565 | 227 | 211 | 35 |
| 19 | 1 | 713.0 | 27.0 | 96.3 | 38.9 | 37.5 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 36 |
| 19 | 1 | 4,847.5 | 398.5 | 92.4 | 276.1 | 255.1 | 2 | 2 | 6 | 0 | 6 | 0 | 0 | 37 |
| 1,416 | 104 | 61,758.0 | 4,002.5 | 93.9 | 3,535.5 | 3,320.1 | 186 | 207 | 12 | 1 | 271 | 73 | 46 | 38 |
| 1,735 | 105 | 78,456.0 | 4,505.0 | 94.5 | 4,412.8 | 4,173.1 | 120 | 128 | 33 | 8 | 163 | 125 | 89 | 39 |
| 3,189 | 211 | 145,774.5 | 8,933.0 | 94.2 | 8,263.3 | 7,785.8 | 308 | 337 | 51 | 9 | 444 | 198 | 135 | 40 |

TABLE I—Summary of monthly statistics of the schools of the seventh

| Schools. | | Number of pupils from last report. | Admitted by transfer. | Otherwise admitted. | Transferred. | Withdrawn. | Forfeited seat. | Dismissed. | Number on the roll. | Re-entered. | Number present. | Number punctual. | Corporally punished. | Suspended. |
|--------------------|----------------------|------------------------------------|-----------------------|---------------------|--------------|------------|-----------------|------------|---------------------|-------------|-----------------|------------------|----------------------|------------|
| <i>May, 1888.</i> | | | | | | | | | | | | | | |
| 41 | Normal School..... | 39 | 0 | 0 | 0 | 1 | 2 | 0 | 36 | 0 | 29 | 29 | 0 | 0 |
| 42 | High School..... | 271 | 0 | 25 | 0 | 5 | 31 | 0 | 260 | 25 | 72 | 72 | 0 | 2 |
| 43 | Seventh division.... | 3,532 | 3 | 141 | 7 | 72 | 168 | 0 | 3,429 | 136 | 1,349 | 1,288 | 6 | 9 |
| 44 | Eighth division..... | 4,379 | 4 | 167 | 0 | 91 | 211 | 0 | 4,248 | 158 | 1,915 | 1,862 | 1 | 9 |
| 45 | Total | 8,221 | 7 | 333 | 7 | 169 | 412 | 0 | 7,973 | 319 | 3,365 | 3,251 | 7 | 20 |
| <i>June, 1888.</i> | | | | | | | | | | | | | | |
| 46 | Normal School..... | 36 | 0 | 2 | 0 | 0 | 0 | 0 | 38 | 2 | 35 | 35 | 0 | 0 |
| 47 | High School..... | 260 | 0 | 5 | 0 | 2 | 7 | 0 | 256 | 5 | 188 | 187 | 0 | 0 |
| 48 | Seventh division.... | 3,429 | 0 | 82 | 0 | 60 | 92 | 0 | 3,359 | 81 | 2,328 | 2,283 | 1 | 8 |
| 49 | Eighth division..... | 4,248 | 1 | 81 | 0 | 49 | 90 | 0 | 4,191 | 79 | 3,034 | 3,022 | 3 | 0 |
| 50 | Total | 7,973 | 1 | 170 | 0 | 111 | 189 | 0 | 7,844 | 167 | 5,585 | 5,527 | 4 | 8 |

RECAPIT

| | | | | | | | | | | | | | | |
|----|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----|
| 1 | September | 6,341 | 4,892 | 3,257 | 4,871 | 48 | 120 | 0 | 9,451 | 12 | 6,665 | 6,606 | 1 | 2 |
| 2 | October | 9,451 | 888 | 1,014 | 966 | 114 | 589 | 0 | 9,684 | 295 | 5,648 | 5,474 | 9 | 10 |
| 3 | November | 9,684 | 145 | 652 | 156 | 155 | 708 | 0 | 9,462 | 438 | 5,207 | 4,946 | 15 | 42 |
| 4 | December | 9,462 | 63 | 480 | 72 | 148 | 1,007 | 2 | 8,726 | 386 | 4,621 | 4,461 | 7 | 29 |
| 5 | January | 8,726 | 346 | 1,481 | 369 | 195 | 1,416 | 2 | 8,571 | 1,258 | 3,509 | 3,355 | 11 | 33 |
| 6 | February | 8,571 | 46 | 823 | 39 | 143 | 804 | 2 | 8,452 | 747 | 3,897 | 3,790 | 14 | 36 |
| 7 | March | 8,452 | 43 | 794 | 39 | 108 | 880 | 1 | 8,261 | 749 | 3,293 | 3,225 | 8 | 30 |
| 8 | April | 8,261 | 26 | 647 | 23 | 151 | 537 | 2 | 8,221 | 606 | 4,027 | 3,905 | 2 | 16 |
| 9 | May | 8,221 | 7 | 333 | 7 | 169 | 412 | 0 | 7,973 | 319 | 3,365 | 3,251 | 7 | 20 |
| 10 | June | 7,973 | 1 | 170 | 0 | 111 | 189 | 0 | 7,844 | 167 | 5,585 | 5,527 | 4 | 8 |
| 11 | Grand total.... | 6,457 | 9,601 | 6,542 | 1,342 | 6,662 | 9 | ..... | 4,977 | ..... | ..... | 78 | 226 | |

and eight divisions, showing attendance and other facts, etc.—Continued.

| Days school open. | Days school closed. | Aggregate days' attendance. | Aggregate days' absence. | Percentage of attendance. | Average number of pupils enrolled. | Average attendance. | Number of pupils tardy. | Cases of tardiness. | Days teacher absent. | Times teacher tardy. | Visits of parents. | Visits of supervising principal. | Visits of superintendent. | |
|-------------------|---------------------|-----------------------------|--------------------------|---------------------------|------------------------------------|---------------------|-------------------------|---------------------|----------------------|----------------------|--------------------|----------------------------------|---------------------------|----|
| 22 | 0 | 811.0 | 21.0 | 97.4 | 37.8 | 36.8 | 0 | 0 | 2 | 0 | 4 | 0 | 1 | 41 |
| 22 | 0 | 4,905.0 | 669.5 | 88.1 | 256.1 | 225.6 | 7 | 7 | 0 | 0 | 9 | 0 | 0 | 42 |
| 1,660 | 88 | 71,484.5 | 4,525.5 | 94.0 | 3,486.6 | 3,279.1 | 226 | 250 | 29½ | 1 | 135 | 115 | 24 | 43 |
| 2,018 | 98 | 90,535.0 | 5,076.0 | 94.6 | 4,365.7 | 4,134.0 | 117 | 111 | 10½ | 5 | 217 | 110 | 93 | 44 |
| 3,722 | 186 | 167,795.5 | 10,292.0 | 94.2 | 8,146.2 | 7,675.5 | 350 | 368 | 41½ | 6 | 365 | 225 | 118 | 45 |
| 13 | 0 | 485.5 | 3.0 | 99.3 | 37.5 | 37.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 13 | 0 | 3,290.0 | 114.0 | 96.5 | 254.9 | 246.1 | 6 | 6 | 0 | 0 | 3 | 0 | 0 | 47 |
| 1,039 | 25 | 44,613.0 | 1,626.5 | 96.4 | 3,399.9 | 3,280.3 | 90 | 93 | 6½ | 0 | 992 | 92 | 46 | 48 |
| 1,277½ | 10½ | 56,652.0 | 1,774.5 | 96.9 | 4,233.8 | 4,105.2 | 22 | 23 | 1 | 2 | 1,141 | 93 | 23 | 49 |
| 2,342½ | 35½ | 104,950.0 | 3,518.0 | 96.7 | 7,926.1 | 7,668.9 | 118 | 122 | 7½ | 2 | 2,136 | 185 | 69 | 50 |

ULATION.

| | | | | | | | | | | | | | | |
|--------|-------|-------------|----------|------|---------|---------|-------|-------|-------|-----|-------|-------|-------|----|
| 1,715 | 0 | 88,147.0 | 2,276.5 | 96.3 | 1,091.6 | 8,862.6 | 122 | 124 | 25½ | 4 | 144 | 204 | 18 | 1 |
| 3,571 | 304 | 193,918.5 | 7,494.5 | 96.2 | 9,724.8 | 9,363.1 | 403 | 451 | 24 | 14 | 331 | 315 | 68 | 2 |
| 3,431½ | 18½ | 183,990.5 | 9,361.0 | 95.4 | 9,714.7 | 9,244.4 | 559 | 635 | 20½ | 8 | 349 | 346 | 93 | 3 |
| 2,922 | 2 | 144,498.0 | 9,738.0 | 93.6 | 9,124.3 | 8,548.3 | 394 | 421 | 40 | 12 | 323 | 248 | 192 | 4 |
| 3,599 | 1 | 169,254.0 | 13,182.5 | 92.7 | 8,745.0 | 8,113.1 | 465 | 520 | 60½ | 28 | 405 | 274 | 30 | 5 |
| 3,276½ | 12½ | 153,251.0 | 10,476.0 | 93.6 | 8,514.8 | 7,970.8 | 354 | 375 | 84½ | 8 | 623 | 216 | 133 | 6 |
| 3,462 | 107½ | 156,145.5 | 3,497.0 | 92.0 | 8,356.9 | 7,692.4 | 346 | 367 | 59½ | 23 | 565 | 227 | 211 | 7 |
| 3,189 | 211 | 145,774.5 | 8,933.0 | 94.2 | 8,263.3 | 7,785.8 | 308 | 337 | 51½ | 9 | 444 | 198 | 135 | 8 |
| 3,722 | 186 | 167,795.5 | 10,292.0 | 94.2 | 8,146.2 | 7,675.5 | 350 | 368 | 41½ | 6 | 365 | 225 | 118 | 9 |
| 2,342½ | 35½ | 104,950.0 | 3,518.0 | 96.7 | 7,926.1 | 7,668.9 | 118 | 122 | 7½ | 2 | 2,136 | 185 | 69 | 10 |
| ..... | ..... | 1,507,733.5 | 48,768.5 | 94.4 | ..... | ..... | ..... | 3,720 | 115½* | 114 | 5,690 | 2,438 | 1,067 | 11 |

638 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE II.—Showing whole number of pupils enrolled by grades in the seventh and eighth divisions for school year ending June 30, 1888.

| Grade. | Seventh division. | Eighth division. | Total. |
|--------------------|-------------------|------------------|--------|
| First grade..... | 1,740 | 2,488 | 4,228 |
| Second grade..... | 911 | 1,159 | 2,070 |
| Third grade..... | 710 | 771 | 1,481 |
| Fourth grade..... | 447 | 566 | 1,013 |
| Fifth grade..... | 449 | 405 | 854 |
| Sixth grade..... | 206 | 251 | 460 |
| Seventh grade..... | 152 | 156 | 308 |
| Eighth grade..... | 115 | 110 | 225 |
| Total..... | 4,730 | 5,909 | 10,639 |
| High School..... | | | 361 |
| Normal School..... | | | 40 |
| Total..... | | | 11,040 |

TABLE III.—Showing the whole number of pupils enrolled in the seventh and eighth divisions in each grade and per cent. of enrollment for the school years 1886-'87 and 1887-'88, with increase and decrease.

| Grade. | 1886-'87. | | 1887-'88. | | Increase. | Decrease. |
|------------------------------|-------------------|-----------|-------------------|-----------|-----------|-----------|
| | Whole enrollment. | Per cent. | Whole enrollment. | Per cent. | | |
| Normal School..... | 20 | .19 | 40 | .36 | 20 | ..... |
| High School..... | 276 | 2.66 | 361 | 3.27 | 85 | ..... |
| Eighth grade..... | 204 | 1.97 | 225 | 2.04 | 21 | ..... |
| Seventh grade..... | 379 | 3.08 | 508 | 2.79 | ..... | 11 |
| Sixth grade..... | 462 | 4.46 | 460 | 4.17 | ..... | 2 |
| Fifth grade..... | 728 | 7.03 | 854 | 7.73 | 126 | ..... |
| Fourth grade..... | 1,646 | 10.09 | 1,013 | 9.17 | ..... | 33 |
| Third grade..... | 1,282 | 12.37 | 1,481 | 13.41 | 199 | ..... |
| Second grade..... | 1,946 | 18.77 | 2,070 | 18.75 | 124 | ..... |
| First grade..... | 4,082 | 39.38 | 4,228 | 38.30 | 146 | ..... |
| Total..... | 10,365 | 100.00 | 11,040 | 100.00 | ..... | ..... |
| SUMMARY. | | | | | | |
| Normal and High Schools..... | 296 | 2.85 | 401 | 3.63 | 105 | ..... |
| Grammar schools..... | 1,713 | 16.54 | 1,847 | 16.73 | 134 | ..... |
| Primary schools..... | 8,356 | 80.61 | 8,792 | 79.64 | 436 | ..... |
| Total..... | 10,365 | 100.00 | 11,040 | 100.00 | 675 | ..... |

TABLE IV.—Showing the absolute and relative growth of the High School of the seventh and eighth divisions, from 1880-'81 to 1887-'88, inclusive.

| Years. | Number enrolled in all grades, excluding Normal School. | Number enrolled in the High School. | Per cent. of enrollment in High School on enrollment in all grades, excluding Normal School. | Teachers in all grades, excluding Normal School teachers. | Teachers in High School. | Per cent. of teachers in High School on number of teachers in all grades, excluding those in Normal School. | Number of graduates from High School. |
|---------------|---|-------------------------------------|--|---|--------------------------|---|---------------------------------------|
| 1880-'81..... | 8,149 | 75 | .9 | 134 | 3 | 2.2 | 12 |
| 1881-'82..... | 8,289 | 90 | 1.1 | 143 | 3 | 2.1 | 9 |
| 1882-'83..... | 8,710 | 114 | 1.3 | 147 | 3 | 2.0 | (*) |
| 1883-'84..... | 9,167 | 127 | 1.4 | 154 | 4 | 2.6 | 13 |
| 1884-'85..... | 9,598 | 172 | 1.8 | 162 | 4 | 2.5 | 28 |
| 1885-'86..... | 10,138 | 247 | 2.4 | 171 | 6 | 3.4 | 33 |
| 1886-'87..... | 10,345 | 276 | 2.7 | 182 | 8 | 4.4 | 39 |
| 1887-'88..... | 11,000 | 361 | 3.3 | 188 | 9 | 4.8 | 51 |

* No graduating class.

TABLE V.—*Showing the number of half-day schools of each grade in the seventh and eighth divisions, and the buildings in which they are located.*

| Buildings. | First grade. | Second grade. | Third grade. | Fourth grade. | Fifth grade. | Total. |
|----------------------------|--------------|---------------|--------------|---------------|--------------|--------|
| Stevens..... | 5 | 5 | | | | 10 |
| Magruder..... | 2 | 2 | | | | 4 |
| Worsham..... | 2 | 2 | | | | 4 |
| Garnet..... | 3 | 1 | 2 | | | 6 |
| Tenth and R streets..... | 1 | 1 | | | | 2 |
| Seventh and R streets..... | 1 | 1 | | | | 2 |
| Prospect..... | 4 | 3 | 1 | | | 8 |
| P street..... | 1 | 1 | | | | 2 |
| Bunker..... | 2 | 2 | | | | 4 |
| Miller..... | 1 | 1 | | | | 2 |
| Lincoln..... | 2 | 2 | | | | 4 |
| Randall..... | 6 | 4 | 3 | 2 | 1 | 16 |
| Anthony Bowen..... | 3 | 3 | | | | 6 |
| Total..... | 33 | 28 | 6 | 2 | 1 | 70 |

List of school-houses owned, with their respective locations, and with the number of rooms in each.

| Division. | Name of building. | Location of building. | Number of rooms. |
|-----------|--------------------|---|------------------|
| 7 | Sumner..... | Seventeenth and M streets northwest..... | 10 |
| 7 | Stevens..... | Twenty-first street, between K and L streets northwest.... | 19 |
| 7 | Magruder..... | M street, between Sixteenth and Seventeenth streets north-
west..... | 8 |
| 7 | Garnet..... | I street, between Vermont avenue and Tenth street north-
west..... | 12 |
| 7 | Worsham..... | Prospect street, between Thirty-third and Thirty-fourth
streets northwest..... | 8 |
| 7 | Chamberlain..... | East street, Georgetown..... | 8 |
| 8 | John F. Cook..... | O street, between Fourth and Fifth streets northwest..... | 11 |
| 8 | Bunker..... | Third street, between K and L streets northwest..... | 8 |
| 8 | Lincoln..... | Second and C streets southeast..... | 11 |
| 8 | Lowrey..... | Twelfth and D streets northeast..... | 6 |
| 8 | Randall..... | First and I streets southwest..... | 12 |
| 8 | Anthony Bowen..... | Ninth and E streets southwest..... | 8 |
| 8 | Giddings..... | G street, between Third and Fourth streets southeast..... | 8 |

REPORT
OF THE
HEALTH OFFICER
OF THE
DISTRICT OF COLUMBIA.

1888.

OFFICERS OF THE HEALTH DEPARTMENT.

HEALTH OFFICER.

SMITH TOWNSHEND, M. D.

CHIEF CLERK.

J. C. MCGINN.

CLERKS.

B. F. PETERS.
W. B. MOORE.

M. L. SOTHORON.
W. B. JONES.

SANITARY INSPECTORS.

A. J. HEIRD.
T. W. PARSONS.
E. H. HUME.

THOMAS M. SHEPHERD.
B. G. POOL, M. D.
C. H. WELCH.

SUPERINTENDENT STREET AND ALLEY CLEANING.

M. J. FOLEY.

INSPECTOR OF PLUMBING.

SAMUEL A. ROBINSON.

FOOD INSPECTORS.

J. R. MOTHERSHEAD.

CALEB SEBASTIAN.*

R. B. JONES.

INSPECTOR OF MARINE PRODUCTS.

GWYNN HARRIS.

POUNDMASTER.

SAMUEL EINSTEIN.

MESSANGER.

ORLANDO KING.

PHYSICIANS TO THE POOR.

D. P. HICKLING, M. D.
R. A. NEALE, M. D.
J. V. CARRAHER, M. D.
J. H. YARNALL, M. D.
H. DARLING, M. D.

C. R. COLLINS, M. D.
E. C. C. WINTER, M. D.
D. OLIN LEECH, M. D.
P. S. ROY, M. D.
R. A. PYLES, M. D.

CHAS. F. GOODELL, M. D.

* Detailed from Metropolitan police force.

Z.

REPORT OF THE HEALTH OFFICER.

GENTLEMEN: The following pages present statements in detail which exhibit the operations of the health department for the fiscal year ending June 30, 1888.

The only change in the various services committed to the care of this office is the addition of the supervision of the work of cleaning the streets, avenues, and alleys, which service being placed under our supervision at a late period in the fiscal year I can only give actual figures as to work performed, and make but little comment as to the defects which may have entered into the service.

The general health of the city during the year has remained unimpaired, and our community has good reason to congratulate itself upon existing conditions. While many of the sister cities of the Republic have been subjected to scourges dire and fearful, Washington and the District of Columbia have been left almost entirely free from those diseases which are acknowledged to be caused by insanitary conditions in municipal surroundings.

The total number of deaths occurring during the year reached 5,040, of which 2,778 were white, and 2,262 colored persons.

In the zymotic or preventable class, the one to which, as sanitarians, we are called upon to give the most consideration, we find the death-rate only reaching the low figure of 4.99 per 1,000 per annum. The death-rate of the whites from this class of diseases was 4.26 per 1,000 per annum, and that of the colored population 6.45. The mean averaged death-rate of the total population for the thirteen years ending June 30, 1888, reached 23.88 per 1,000 per annum; that of the total population for 1888 reaching only 22.40 per 1,000 per annum. This showing, as regards the healthfulness of this District, is entirely satisfactory to the Department, and should be a source of congratulation for every citizen. The annual death-rate of the white population for the year was 18.52 per 1,000, and that of the colored population 30.16 per 1,000 per annum. The mean death-rate of the white population for the thirteen years ending June 30, 1888, was 18.77 per 1,000 per annum, and that of the colored population 34.00 per 1,000 per annum.

The death-rate of the colored population has been gradually decreasing for the past four years. This is also a source of congratulation, for the reason that this colored population has been the bane of the death-rate of Washington and the District of Columbia.

The population upon which these death-rates are estimated is placed at 225,000 souls—150,000 white and 75,000 colored. This estimate is more than moderate, considering it from the stand-point of the census of 1880 and the local censuses since taken.

The usual preliminary statements, giving condensed summaries regarding deaths and death-rates, follow; statement A and B giving de-

tailed comparisons of the last two years, while C gives the estimated population, together with the deaths and death-rates, for the thirteen years ending June 30, 1888. These statements are concise, and will, I trust, be interesting subjects of contemplation to those interested in vital statistics.

STATEMENT A.—Showing deaths by classes, arranged according to sex and color, with percentages and annual death-rates, for the year ending June 30, 1888.

| Classes of diseases. | Deaths. | | | | | | Percentages to total deaths. | | | | Annual death-rate. | | | |
|----------------------|---------|-------|----------|-------|--------|----------|------------------------------|--------|--------|----------|--------------------|--------|----------|--------|
| | White. | | Colored. | | White. | Colored. | Total. | White. | | Colored. | | White. | Colored. | Total. |
| | M. | F. | M. | F. | | | | M. | F. | M. | F. | | | |
| | | | | | | | | | | | | | | |
| Zymotic | 333 | 306 | 226 | 258 | 639 | 484 | 1,123 | 22.83 | 23.15 | 21.54 | 21.27 | 4.28 | 6.45 | 4.99 |
| Constitutional | 270 | 307 | 204 | 336 | 577 | 540 | 1,117 | 18.57 | 23.22 | 19.45 | 27.70 | 3.84 | 7.20 | 4.97 |
| Local | 677 | 524 | 455 | 423 | 1,201 | 878 | 2,079 | 46.50 | 39.63 | 43.37 | 34.87 | 8.00 | 11.71 | 9.24 |
| Developmental | 108 | 162 | 119 | 172 | 270 | 291 | 561 | 7.43 | 12.26 | 11.35 | 14.17 | 1.80 | 3.88 | 2.49 |
| Violence..... | 68 | 23 | 45 | 24 | 91 | 69 | 160 | 4.67 | 1.74 | 4.29 | 1.99 | .60 | .92 | .71 |
| Total | 1,456 | 1,322 | 1,049 | 1,213 | 2,778 | 2,262 | 5,040 | 100.00 | 100.00 | 100.00 | 100.00 | 18.52 | 30.16 | 22.49 |

STATEMENT B.—Showing deaths by classes, arranged according to sex and color, with percentages and annual death-rates for the year ending June 30, 1887.

| Classes of disease. | Deaths. | | | | | | | Percentages to total deaths. | | | | Annual death-rate. | | |
|----------------------|---------|-------|----------|-------|--------|----------|--------|------------------------------|--------|----------|--------|--------------------|----------|--------|
| | | | | | White. | Colored. | Total. | White. | | Colored. | | White. | Colored. | Total. |
| | White. | | Colored. | | | | | | | | | | | |
| | M. | F. | M. | F. | | | | M. | F. | M. | F. | | | |
| Zymotic | 270 | 257 | 236 | 226 | 527 | 462 | 989 | 21.10 | 22.53 | 21.87 | 20.51 | 3.76 | 6.60 | 4.70 |
| Constitutional | 286 | 295 | 271 | 319 | 581 | 500 | 1,171 | 21.29 | 25.86 | 25.12 | 28.95 | 4.15 | 8.43 | 5.58 |
| Local | 580 | 436 | 424 | 377 | 1,016 | 801 | 1,817 | 43.19 | 38.21 | 39.29 | 34.21 | 7.26 | 11.44 | 8.65 |
| Developmental | 110 | 137 | 104 | 148 | 247 | 252 | 499 | 8.19 | 12.00 | 9.64 | 13.43 | 1.77 | 3.60 | 2.38 |
| Violence..... | 97 | 16 | 44 | 32 | 113 | 76 | 189 | 7.33 | 1.40 | 4.08 | 2.90 | .80 | 1.08 | .90 |
| Total | 1,343 | 1,141 | 1,079 | 1,102 | 2,484 | 2,181 | 4,665 | 100.00 | 100.00 | 100.00 | 100.00 | 17.74 | 31.15 | 22.21 |

STATEMENT C.—Showing population, deaths, and death-rates for the thirteen years ending June 30, 1888.

| Years. | Population. | | | Deaths. | | | Death-rates. | | |
|----------------------|-------------|----------|---------|---------|----------|--------|--------------|----------|--------|
| | White. | Colored. | Total. | White. | Colored. | Total. | White. | Colored. | Total. |
| 1876..... | 106,741 | 50,859 | 157,600 | 2,086 | 2,074 | 4,160 | 19.54 | 40.78 | 26.40 |
| 1877..... | 109,505 | 52,870 | 162,375 | 2,187 | 2,021 | 4,208 | 19.97 | 38.22 | 25.91 |
| 1878..... | 112,340 | 51,960 | 167,300 | 2,166 | 2,065 | 4,231 | 19.28 | 37.57 | 25.29 |
| 1879..... | 115,247 | 57,130 | 172,377 | 2,196 | 2,113 | 4,309 | 19.05 | 36.99 | 24.99 |
| 1880..... | 118,236 | 59,402 | 177,638 | 2,085 | 2,121 | 4,207 | 17.63 | 35.71 | 23.68 |
| 1881..... | 121,360 | 61,760 | 183,060 | 2,205 | 1,931 | 4,136 | 18.18 | 31.27 | 22.59 |
| 1882..... | 124,441 | 64,212 | 188,653 | 2,353 | 2,218 | 4,571 | 18.91 | 34.54 | 24.23 |
| 1883..... | 126,300 | 65,680 | 191,980 | 2,270 | 2,016 | 4,286 | 17.97 | 30.69 | 22.33 |
| 1884..... | 130,700 | 69,300 | 200,000 | 2,576 | 2,238 | 4,814 | 19.71 | 32.29 | 24.07 |
| 1885..... | 130,700 | 69,300 | 200,000 | 2,610 | 2,388 | 4,998 | 19.97 | 34.45 | 24.99 |
| 1886..... | 136,000 | 69,300 | 205,000 | 2,442 | 2,232 | 4,674 | 17.96 | 32.35 | 22.80 |
| 1887..... | 140,000 | 70,000 | 210,000 | 2,484 | 2,181 | 4,665 | 17.74 | 31.15 | 22.21 |
| 1888..... | 150,000 | 75,000 | 225,000 | 2,778 | 2,262 | 5,040 | 18.52 | 30.16 | 22.40 |
| Mean death-rate..... | | | | | | | 18.77 | 34.00 | 23.88 |

The following is a synopsis of the work performed in the various branches of the service during the year :

There were 19,092 nuisances reported ; 55,926½ pounds of meat, 76,283 pounds of fish, 19,777 bushels of fruits and vegetables, 1,343 bushels of oysters, 61,900 clams, and 118,619 crabs condemned as unfit for food.

Examinations and reports were made on 1,822 citizens' complaints, 958 official letters written, 767 official notices were issued, 31 cases were referred to the attorney and 21 to the chemist for action.

There were 2,751 animals impounded, and the contractor for the removal of offal took away 7,863 dead animals, 20,136 tons of garbage, and 19,743 barrels of night-soil.

The physicians to the poor treated 15,352 patients, of which number 4,745 were white and 10,607 colored.

There were 5,719 burial permits of all kinds issued, 152 disinterment and transfer permits, and 528 orders issued for burials at the public expense.

There were 1,850 inspections of plumbing work made, 199 houses inspected having water-closets and hydrants in yards, and 376 inspections of old houses.

Four hundred and seventeen searches were made and transcripts furnished applicants from the records of birth, marriages, and deaths, and 27 permits issued for obstruction of travel on streets on account of serious illness of residents thereon.

The number of yards of streets and avenues cleaned was 129,659,408; alleys, 23,552,373; total, 153,211,781.

THE ABATEMENT OF NUISANCES.

In the following table (Table A) there is presented the usual consolidated statement detailing by months the number and character of the nuisances reported and abated during the year: while Table B gives consolidated statements covering the six years ending June 30, 1888, on the same subject.

Alleys.—The nuisances being arranged alphabetically, we find alleys first upon the list, with the sum of 199 to its credit, as compared with 145 for the year 1887.

In the six years there have been 1,208 alley nuisances reported.

These nuisances are caused by a variety of circumstances, the principal of which is a lack of drainage facilities, or proper paving and improvement. Much work has been done during the past year under the permit and compulsory permit systems, which should tend to reduce the number of nuisances from this source in the future.

Ashes.—We find accredited under this head 426 nuisances.

The subject of the removal of ashes at the public expense is one which I have been agitating year after year, and I can not find language strong enough to try and impress upon the Commissioners and Congress the necessity for the inauguration of such a service.

As I have stated before, the ash of wood or coal is not in itself a nuisance, but the small accumulation of ashes, whether it be in yard, cellar alley, or other out of the way place, invites the addition of refuse and filth of every kind imaginable, and the ash heaps constitute a nuisance which usually comprises everything that goes to generate foul odors and noxious gases. There are at the present time large accumulations of ashes in the alleys, yards, and vacant spaces over the entire area of the two cities, and on a majority of the premises in Washington and Georgetown you will find in cellar, area, or yard such an accumulation.

In some cases it is kept in boxes or barrels, and in others it is dumped on the ground or pavement in one corner of the yard. To this is added daily some portion of refuse animal or vegetable matter, such as potato parings, egg shells, dish water, and other refuse. If in the cellar, as you will find in many instances is the case, the foul odors and noxious gases emanating therefrom permeate the entire house, and their constant inhalation by the inmates results in some form of low fever which no one can account for, and which in case of death therefrom is set down as a "visitation of Divine Providence." I think the necessity for the removal of ashes at the public expense is paramount. The service can not be properly inaugurated for less than, say, \$25,000 per annum, but after that the work of removal might be performed for much less. The appropriation of such a sum I trust may be urged upon Congress, in order that this much needed service may go into effect.

Surface drainage.—The nuisances resulting from defective surface drainage as reported during the year number 412, mainly caused by lack of sewerage facilities. The extension of the sewers is the only effectual remedy for such nuisances, and where sewers are not in existence the officers of the department can only give their advice, and try to obtain the best temporary remedy possible.

Manure.—The subject of manure and its removal is one which has been commented upon at length in the pages of my previous reports. I urged in the year 1880 that action be taken looking to the establishment of an offal depot at some point upon the river or railway where manure and other refuse which cause nuisances in yards and upon lots and open spaces in the city might be taken and received under the auspices of the District government. Such an establishment might be provided and even, if necessary, a small sum paid to all persons delivering manure. There are persons at present employed in accumulating manure in large quantities at certain points and holding it until such seasons of the year as the farmers find time to utilize it upon their fields. The business is no doubt a profitable one, but in order to insure regularity in the removal of accumulations from all portions of the city to one common dumping ground this work should be performed under the direction of officers of the city government. I trust that the matter will be given consideration.

Privies.—There were reported during the year 12,478 privy nuisances; of this number 5,830 were cases where the privy had been found by the inspector to be filled and the occupant of the premises notified to have the same cleaned. In 675 cases the boxes were found to be leaking; in 58 cases the privies generally dilapidated, and 5,907 in a filthy condition.

As I have said before, the box privy is not the bugbear it is generally supposed to be by the public. When tight and properly constructed it prevents all danger of soil contamination and insures prompt removal of the excreta, and in my opinion is second only to the water-carriage service.

Sewers and sewer-traps.—During the year the public sewers were reported in a state of nuisance in 625 cases, sewer-traps in 66 cases, and house sewer connection in only 51 cases. In many cases the sewers laid in the earlier days of the board of public works have been interfered with by the roots of trees or were defective in construction, and now cause no end of trouble. These sewers are being replaced, so I am informed, as rapidly as possible by the engineer department, and once ridded of these old pipes and barrel sewers a large addition to sanitary improvement will be secured.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 647

TABLE A.—Consolidated report of nuisances for the year ending June 30, 1888.

| Nature of nuisance. | 1887. | | | | | | 1888. | | | | | | Total. |
|----------------------------------|--------|---------|------------|----------|-----------|-----------|----------|-----------|--------|--------|--------|--------|---------|
| | July. | August. | September. | October. | November. | December. | January. | February. | March. | April. | May. | June. | |
| Alleys, filthy..... | 33 | 28 | 12 | 9 | 5 | 11 | 6 | 3 | 6 | 15 | 24 | 19 | 171 |
| Alleys, garbage in | 5 | 12 | 12 | 1 | 5 | | | 1 | | 1 | 1 | | 13 |
| Alleys, need re-
pair. | | | | 12 | | | | | | 1 | 1 | 4 | 15 |
| Areas..... | | | | | | | 1 | | | 1 | | 5 | 7 |
| Ashes..... | 36 | 25 | 36 | 34 | 42 | 31 | 20 | 15 | 38 | 60 | 30 | 59 | 426 |
| Cellars..... | 6 | 10 | 14 | 4 | 8 | 5 | 2 | 9 | 7 | 6 | 3 | 6 | 80 |
| Drainage, surface | 18 | 32 | 57 | 27 | 17 | 23 | 5 | 8 | 32 | 33 | 74 | 86 | 412 |
| Garbage..... | 28 | 24 | 30 | 19 | 19 | 17 | 20 | 10 | 11 | 25 | 15 | 20 | 238 |
| Gutters..... | 17 | 13 | 1 | | | 1 | | | 1 | | 5 | 4 | 42 |
| Hog-pens..... | | 2 | | | | | | | | | | 1 | 3 |
| Houses, filthy..... | 2 | 1 | | | | | 1 | | 1 | 1 | 1 | 1 | 8 |
| Houses, unfit for
habitation. | | | | | | | | | | | 1 | 3 | 4 |
| Houses, no privy. | 1 | | 1 | | 1 | 3 | 3 | 2 | 1 | | 3 | 2 | 17 |
| Hydrants..... | | 9 | 2 | 6 | 6 | 5 | 1 | 7 | 6 | 10 | 8 | 7 | 67 |
| Lots, filthy..... | 5 | 17 | 10 | 2 | 3 | | | | 1 | 4 | 4 | 5 | 51 |
| Lots, stagnant
water. | 13 | 6 | 3 | 2 | | 1 | 4 | 1 | 2 | 4 | | 8 | 44 |
| Manure..... | 60 | 42 | 57 | 44 | 35 | 36 | 34 | 30 | 50 | 61 | 42 | 88 | 579 |
| Miscellaneous..... | 133 | 91 | 104 | 109 | 67 | 40 | 49 | 61 | 59 | 131 | 96 | 262 | 1 202 |
| Pipes, water..... | 9 | 8 | 3 | 7 | 10 | 15 | 14 | 12 | 16 | 14 | 9 | 10 | 127 |
| Ponds..... | 2 | | | | | | | | | | | | 2 |
| Privies, filthy..... | 453 | 572 | 660 | 530 | 461 | 444 | 343 | 410 | 383 | 554 | 471 | 626 | 5, 907 |
| Privies, dilapi-
dated. | 8 | 4 | 6 | 6 | 4 | 3 | 1 | 3 | 7 | 3 | 6 | 7 | 58 |
| Privies, full..... | 438 | 560 | 650 | 521 | 449 | 436 | 346 | 405 | 384 | 564 | 482 | 595 | 5, 830 |
| Privies, leaky
boxes. | 111 | 134 | 99 | 69 | 48 | 31 | 10 | 10 | 24 | 24 | 48 | 67 | 675 |
| Roofs, leaky..... | | | 1 | | | | | | 1 | | | 1 | 3 |
| Sewers..... | 46 | 44 | 54 | 41 | 28 | 59 | 50 | 45 | 66 | 54 | 54 | 84 | 625 |
| Sewers, connec-
tion. | 20 | | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 2 | 10 | 7 | 51 |
| Stables..... | 11 | 15 | 28 | 11 | 8 | 10 | 6 | 6 | 8 | 7 | 5 | 16 | 131 |
| Stables, cow..... | 1 | 2 | | 3 | 5 | 5 | 14 | 5 | 3 | 6 | 6 | 3 | 53 |
| Streets, filthy..... | | 1 | 1 | | | | | | | | | | 2 |
| Streets, need re-
pair. | 2 | 1 | | | | | | | | | | | 3 |
| Traps, sewer..... | 18 | 13 | 5 | 3 | 1 | 2 | 1 | | 3 | 2 | 7 | 11 | 66 |
| Yards..... | 158 | 183 | 168 | 163 | 147 | 135 | 54 | 65 | 91 | 218 | 138 | 206 | 1, 726 |
| Yards, cow..... | | | 2 | 1 | 1 | | | | 1 | 5 | 1 | 3 | 14 |
| Vaults, privy..... | | | 4 | | 3 | | | | 5 | | | | 12 |
| Water-closets..... | 44 | 52 | 35 | 27 | 24 | 28 | 28 | 25 | 28 | 55 | 28 | 54 | 428 |
| Total..... | 1, 678 | 1, 893 | 2, 047 | 1, 642 | 1, 400 | 1, 343 | 1, 015 | 1, 134 | 1, 236 | 1, 861 | 1, 573 | 2, 270 | 19, 092 |

TABLE B.—Consolidated report of nuisances for six years ending June 30, 1888.

| Nature of nuisance. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | Total. |
|------------------------------------|--------|--------|--------|--------|--------|--------|---------|
| Alleys | 283 | 227 | 220 | 134 | 145 | 199 | 1,208 |
| Areas | 35 | 63 | 28 | 10 | 21 | 7 | 164 |
| Cellars | 146 | 140 | 97 | 73 | 91 | 80 | 627 |
| Drainage | 378 | 404 | 305 | 390 | 314 | 412 | 2,203 |
| Gutters | 203 | 254 | 178 | 78 | 65 | 42 | 820 |
| Garbage | 76 | 359 | 322 | 211 | 324 | 238 | 1,530 |
| Hog-pens | 26 | 26 | 40 | 14 | 15 | 3 | 124 |
| Houses, filthy | 53 | 38 | 49 | 22 | 12 | 8 | 182 |
| Houses, unfit for habitation | 85 | 38 | 53 | 16 | 31 | 4 | 227 |
| Houses, no privy | 34 | 20 | 30 | 42 | 38 | 17 | 181 |
| Hydrants | 85 | 89 | 155 | 89 | 104 | 67 | 589 |
| Lots, filthy | 50 | 160 | 138 | 88 | 57 | 51 | 544 |
| Manure, heaps | 697 | 649 | 399 | 433 | 457 | 579 | 3,214 |
| Markets, public | 1 | 1 | | | | | 2 |
| Miscellaneous | 2,445 | 2,119 | 1,766 | 1,407 | 1,330 | 1,631 | 10,698 |
| Pumps | 2 | 12 | 1 | | | | 15 |
| Pipes, water | 65 | 108 | 141 | 106 | 123 | 127 | 670 |
| Ponds, stagnant | 21 | 9 | 92 | 61 | 99 | 46 | 328 |
| Privies, filthy | 2,498 | 3,189 | 4,338 | 5,913 | 5,047 | 5,907 | 26,892 |
| Privies, full | 2,232 | 2,498 | 3,612 | 6,415 | 5,407 | 5,830 | 25,994 |
| Privies, leaky boxes | 601 | 688 | 630 | 943 | 850 | 675 | 4,447 |
| Privies, dilapidated | 88 | 57 | 76 | 119 | 63 | 58 | 491 |
| Roofs, leaky | 34 | 19 | 14 | 13 | 9 | 3 | 92 |
| Sewers, public | 355 | 355 | 403 | 413 | 475 | 625 | 2,626 |
| Sewers, house connection | 74 | 48 | 28 | 35 | 46 | 51 | 282 |
| Slaughter-houses | 10 | 8 | 4 | 11 | 9 | | 42 |
| Stables | 314 | 361 | 232 | 164 | 149 | 184 | 1,404 |
| Streets, filthy | 12 | 6 | 1 | 3 | 2 | 2 | 26 |
| Traps, sewer | 134 | 177 | 90 | 88 | 69 | 66 | 624 |
| Yards | 2,809 | 3,062 | 2,633 | 1,890 | 1,710 | 1,726 | 13,830 |
| Yards, cow | 35 | 18 | 17 | 12 | 13 | 14 | 109 |
| Vaults, privy | 10 | 5 | 9 | 22 | 15 | 12 | 73 |
| Water-closets | 266 | 257 | 407 | 376 | 428 | 428 | 2,162 |
| Total | 14,157 | 15,464 | 16,568 | 19,621 | 17,518 | 19,092 | 102,420 |

UNWHOLESOME FOOD CONDEMNED.

The condemnation of unwholesome food during the year shows a general reduction in the amounts of the more important articles.

This, I think, can be construed to mean that the quality furnished has been better, as the supply must of necessity have increased. The officers in the service are vigilant, and have performed their duties to the entire satisfaction of the department.

Few persons realize the large amount of food stuff condemned by our officers. In glancing at the table of condemnations for six years ending June 30, 1888, we find 92,025 pounds of beef, 17,546 pounds of veal, 53,485 pounds of mutton, 18,859 pounds of bacon, ham, and pork; 38,868 pounds of poultry, 170,862 heads of cabbage and lettuce, 38,204 hundreds of dozens of cucumbers, 78,636 watermelons, 87,683 cantaloups, and 21,800 quarts of berries on the list.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 649

TABLE C.—Unwholesome food condemned during the year ending June 30, 1888.

| Articles. | 1887. | | | | | |
|---|--------|--------|-------|-------|-------|-------|
| | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
| Beef.....pounds.. | 3,019 | 2,432 | 1,471 | 1,361 | 940 | 1,130 |
| Mutton.....do.. | 788 | 1,681 | 1,096 | 1,735 | 1,855 | 1,198 |
| Veal.....do.. | 264 | 240 | 205 | 215 | 191 | 85 |
| Pork.....do.. | 420 | | 302 | 345 | 20 | 26 |
| Bacon.....do.. | 150 | 130 | 270 | 143 | 100 | |
| Sausage.....do.. | | | 35 | 10 | 5 | |
| Venison.....do.. | | | 21 | | | 51 |
| Chickens.....number | 80 | 65 | 17 | 46 | 316 | 246 |
| Turkeys.....do.. | | | | 35 | 190 | 104 |
| Ducks.....do.. | | | | | 18 | 139 |
| Geese.....do.. | | | | | 5 | |
| Birds.....do.. | | | 74 | 151 | 246 | 161 |
| Rabbits.....do.. | | | | | 401 | 449 |
| Squirrels.....do.. | | | | | 27 | 14 |
| Apples.....bushels.. | 30½ | 138½ | 81½ | 36 | 48 | 37½ |
| Peaches.....do.. | 4 | 45½ | 103 | 2½ | | |
| Pears.....do.. | | 1½ | 65½ | 42½ | 9 | 2½ |
| Quinces.....do.. | | | ½ | ½ | | |
| Bananas.....dozen.. | 1,146 | 3,901 | | 112 | 17 | 248 |
| Oranges.....do.. | 10 | | | | 600 | 301 |
| Lemons.....do.. | 9½ | | 54 | | | |
| Grapes.....pounds.. | | 425 | 667 | 1,771 | 533 | 247 |
| Berries.....quarts.. | 406 | 60 | | | | |
| Cherries.....do.. | | | | | | |
| Cantaloupes.....number | 933 | 17,704 | 3,900 | 65 | | |
| Watermelons.....do.. | 440 | 13,988 | 558 | 1,311 | | |
| Pine apples.....do.. | | | | | | |
| Asparagus.....bunches | | | | | | |
| Beets.....do.. | 103 | 17 | 13 | 3 | 2 | 5 |
| Carrots.....do.. | 6 | | 6 | 5 | 28 | 12 |
| Celery.....do.. | | | 85 | 13 | 674 | 578 |
| Radishes.....do.. | 10 | | 44 | 30 | 23 | 8 |
| Rhubarb.....do.. | | | | | | |
| Lettuce.....number.. | 735 | | | 3 | 183 | 86 |
| Cabbage.....do.. | 14,838 | 1,971 | 857 | 1,466 | 916 | 641 |
| Cymplings.....do.. | 3,816 | 880 | 72 | 36 | | 15 |
| Egg plants.....do.. | 440 | 1,179 | 1,633 | 929 | 435 | 325 |
| Cauliflowers.....do.. | 5 | 30 | 36 | 53 | 207 | 1,749 |
| Pumpkins.....do.. | | | | 20 | 15 | 128 |
| Corn.....dozen.. | 432 | 1,194½ | 829 | 120 | 14½ | |
| Cucumbers.....do.. | 1,181½ | 465 | 60 | 2 | | 9 |
| Kale.....bushels.. | | | | | 20½ | 9½ |
| Spinach.....do.. | | | | | 5½ | 3½ |
| Parsnips.....do.. | | | | | 3 | 6 |
| Potatoes.....do.. | 50 | 528½ | 79½ | 85½ | 71½ | 18 |
| Pears.....do.. | 30½ | | | | | |
| Beans.....do.. | 46½ | 30½ | 11½ | 4 | | |
| Turnips.....do.. | | | | | 22½ | 7 |
| Tomatoes.....do.. | 324 | 375½ | 93½ | 149½ | 39½ | 5 |
| Onions.....do.. | | | 1 | 1½ | 10 | 1½ |
| Chestnuts.....do.. | | | | 48 | | |
| Eggs.....dozen.. | 60 | | | | | |
| Cheese.....pounds.. | | | | | | |
| Miscellaneous fruits and vegetables.....bushels.. | 201 | 288 | 240½ | 126 | 138½ | 92½ |

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TABLE C.—Unwholesome food condemned during the year ending June 30, 1888—Continued.

| | | 1888. | | | | | | Total. |
|-------------------------------------|---------|-------|-------|-------|-------|-------|--------|---------|
| Articles. | | Jan. | Feb. | Mar. | Apr. | May. | June. | |
| Beef | pounds | 300 | 1,145 | 586 | 1,257 | 3,134 | 3,687½ | 20,462½ |
| Mutton | do. | 305 | 495 | 1,200 | 1,435 | 2,092 | 1,813 | 15,693 |
| Veal | do. | 95 | 100 | 75 | 325 | 384 | 557 | 2,736 |
| Pork | do. | 40 | | | 65 | 200 | 203 | 1,631 |
| Bacon | do. | | | | | | | 793 |
| Sausage | do. | | | | 9 | 50 | | 109 |
| Venison | do. | | | | | | | 72 |
| Chickens | number | 80 | 120 | 96 | 30 | 59 | 133 | 1,288 |
| Turkeys | do. | 15 | 45 | 14 | 2 | 11 | | 416 |
| Ducks | do. | 240 | 174 | 90 | 7 | 8 | 4 | 680 |
| Geese | do. | 9 | | 4 | 1 | | | 19 |
| Birds | do. | 44 | | 50 | | | | 726 |
| Rabbits | do. | 185 | 429 | 58 | | | | 1,522 |
| Squirrels | do. | | | | | | | 41 |
| Apples | bushels | 80½ | 59½ | 31 | 29½ | 12½ | | 585 |
| Peaches | do. | | | | | | 53½ | 208½ |
| Pears | do. | | 4 | | | | | 124½ |
| Quinces | do. | | | | | | | 1 |
| Bananas | dozen | 18 | 21 | 37 | | | | 5,500 |
| Oranges | do. | 2,000 | 300 | 4 | 22 | 3 | | 3,240 |
| Lemons | do. | | | | 4 | 3 | | 70½ |
| Grapes | pounds | 105 | 170 | | | | 11 | 3,929 |
| Berries | quarts | 20 | 3 | | 245 | 1,804 | 816 | 3,354 |
| Cherries | do. | | | | | 16 | 423 | 439 |
| Cantaloups | number | | | | | | 110 | 22,712 |
| Watermelons | do. | | | | | 6 | 240 | 16,548 |
| Pine-apples | do. | | | | 35 | 380 | 70 | 435 |
| Asparagus | bunches | | | 30 | 267 | 1,224 | 412 | 1,933 |
| Beets | do. | 26 | 6 | | 3 | 42 | 58 | 278 |
| Carrots | do. | 21 | 56 | 29 | 38 | | | 201 |
| Celery | do. | 458 | 152 | 98 | 33 | | | 2,090 |
| Radishes | do. | | | 5 | 3,759 | 2,170 | 2,004 | 8,053 |
| Rhubarb | do. | | | | 30 | 304 | 667 | 1,001 |
| Lettuce | number | 31 | 519 | 185 | 2,095 | 4,248 | 1,781 | 9,866 |
| Cabbage | do. | 1,746 | 887 | 355 | 1,431 | 5,526 | 2,669 | 33,368 |
| Cymlings | do. | | | | 125 | 182 | 112 | 5,138 |
| Egg-plants | do. | 1,246 | 494 | | | 243 | | 6,924 |
| Cauliflowers | do. | 288 | | | | | | 2,308 |
| Pumpkins | do. | 113 | 50 | 20 | | | | 346 |
| Corn | dozen | | | | | | | 2,589½ |
| Cucumbers | do. | | | | 32 | 1,740 | 2,377½ | 5,876 |
| Kale | bushels | 22½ | 59½ | 107 | 522½ | 1,607 | | 1,749½ |
| Spinach | do. | | 8½ | 4½ | 5½ | 10 | | 38½ |
| Parsnips | do. | 1½ | 4 | 3½ | 15 | 5 | | 35½ |
| Potatoes | do. | 22 | 87½ | 46½ | 2½ | 5½ | 108½ | 1,150½ |
| Peas | do. | | | | 33½ | 150 | 35 | 249 |
| Beans | do. | | | | 90½ | 312½ | 52 | 548 |
| Turnips | do. | 9 | 5½ | 21½ | 10½ | 2½ | | 79½ |
| Tomatoes | do. | | | | 23½ | 40½ | 127 | 1,177½ |
| Onions | do. | | 4½ | 7 | 7½ | 6½ | 1½ | 41½ |
| Chestnuts | do. | | | | | | | 48 |
| Eggs | dozen | 40 | | 150 | | | | 250 |
| Cheese | pounds | | | | | | 10 | 10 |
| Miscellaneous fruits and vegetables | bush. | 78½ | 117 | 112 | 115½ | 212½ | 146½ | 1,867½ |

TABLE D.—Unwholesome food condemnations for six years ending June 30, 1888.

| Articles. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | Total. |
|---|--------|--------|---------|---------|--------|---------|---------|
| Beef.....pounds.. | 8,854 | 9,657 | 10,716½ | 20,460 | 21,803 | 20,534½ | 92,025 |
| Veal.....do.... | 1,380 | 1,412 | 1,932 | 5,425½ | 4,661 | 2,736 | 17,546½ |
| Mutton.....do.... | 1,919 | 2,518 | 2,903 | 13,614 | 16,808 | 15,693 | 53,485 |
| Bacon, ham, and pork.....do.. | 1,252 | 2,679 | 2,026 | 5,866 | 4,503 | 2,533 | 18,859 |
| Birds, rabbits, and squirrels.....number.. | 123 | 206 | 407 | 1,365 | 1,766 | 2,289 | 6,156 |
| Poultry.....pounds.. | 3,700 | 1,939 | 4,264 | 9,982 | 9,261 | 9,722 | 38,868 |
| Eggs.....dozen.. | 185 | 31 | 16 | 315 | 8 | 250 | 805 |
| Cheese and butter.....pounds.. | 1,640 | 25 | | | 60 | 10 | 1,735 |
| Potatoes and parsnips.....bushels.. | 888½ | 2,537 | 711½ | 1,357½ | 914½ | 1,191½ | 7,601 |
| Beans, peas, and onions.....do.... | 418 | 347½ | 879 | 695½ | 1,061 | 838½ | 4,239½ |
| Cabbage and lettuce.....heads.. | 11,880 | 8,692 | 27,568 | 31,335 | 48,218 | 43,169 | 170,862 |
| Squashes and pumpkins.....numbers.. | 5,813 | 6,142 | 4,952 | 6,813 | 3,512 | 5,584 | 32,816 |
| Corn.....dozen.. | 1,456½ | 1,716½ | 1,998 | 3,713 | 1,924 | 2,589½ | 13,397½ |
| Cucumbers.....do.... | 3,520½ | 3,861½ | 7,233 | 11,216½ | 6,497 | 5,876 | 38,204½ |
| Egg-plants.....number.. | 2,040 | 811 | 2,878 | 4,377 | 1,727 | 6,924 | 18,757 |
| Tomatoes and turnips.....bushels.. | 376½ | 897 | 1,326½ | 856½ | 829½ | 1,256½ | 5,542½ |
| Kale and spinach.....do.... | 343½ | 1,535½ | 301½ | 713½ | 284 | 1,787½ | 3,965½ |
| Apples, peaches and pears.....do.... | 442½ | 874 | 498½ | 1,385½ | 815 | 917½ | 4,933 |
| Watermelons.....number.. | 19,830 | 6,802 | 12,161 | 9,398 | 13,902 | 16,543 | 78,636 |
| Cantaloups.....do.... | 18,000 | 8,541 | 9,705 | 16,682 | 12,043 | 22,712 | 87,683 |
| Berries.....quarts.. | 2,144 | 2,232 | 3,620 | 3,920½ | 6,091 | 3,793 | 21,800½ |
| Oranges and lemons.....dozen.. | 300½ | 636½ | 8,539½ | 2,761 | 5,011 | 3,310½ | 20,559½ |
| Bananas.....do.... | | 330½ | 314½ | 419 | 596 | 5,500 | 7,168½ |
| Grapes.....pounds.. | | 895 | 534 | 1,533 | 4,480½ | 3,929 | 11,371½ |
| Miscellaneous fruits and vegetables, bushels..... | 1,368½ | 1,206½ | 1,718 | 1,170 | 2,074½ | 1,993½ | 9,530½ |
| Miscellaneous vegetables.....bunches.. | 3,356 | 12,845 | 9,872 | 15,981½ | 10,292 | 11,466 | 63,792½ |

THE INSPECTION OF MARINE PRODUCTS.

The inspection and condemnation of marine products for the year shows an increase in the receipts of shad and a small decrease in the receipts of herring as compared with the year previous. The number of shad reached 308,444 as compared with 265,314 for 1887. The receipts of herring reached 7,446,727, as against 7,886,371 for 1887. The receipts of oysters for the year amounted to 362,690 bushels, the receipts for the year 1887 being only 295,550. The condemnations of all classes of marine productions are much smaller, taken in the aggregate, than for the year 1887. The following tables (E and F) will fully explain themselves.

In connection with this service I desire to call attention to the remarks relating to a city wharf which appear further on in this report.

652 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE E.—*Inspections and condemnations of marine products for the year ending June 30, 1888.*

| | | 1887. | | | | | |
|----------------|-----------|---------|---------|--------|--------|--------|--------|
| Inspections. | | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
| Oysters | bushels.. | 1,790 | 1,810 | 29,730 | 61,700 | 67,600 | 62,400 |
| Clams | number.. | 431,000 | 361,000 | 68,000 | 2,000 | | |
| Crabs | do. | 130,900 | 104,600 | 59,700 | 1,200 | | |
| Mackerel | do. | 1,860 | 1,196 | 595 | 36 | | |
| Sheepshead | do. | 97 | 98 | 128 | 19 | | |
| Porgies | do. | 72 | | 61 | | | |
| Striped bass | bunches.. | 7,275 | 9,316 | 7,774 | 11,817 | 16,931 | 4,078 |
| Bluefish | do. | 2,720 | 4,504 | 11,130 | 2,378 | | |
| Croakers | do. | | | 440 | | | |
| Eels | do. | 290 | 96 | 395 | 965 | 731 | 320 |
| Sturgeon | number.. | 80 | 122 | 64 | 1 | | |
| Pike | bunches.. | 22 | 44 | | 1,895 | 2,435 | 1,608 |
| Perch, yellow | do. | 36 | | | 963 | 1,449 | 2,844 |
| Perch, white | do. | 1,833 | 2,561 | 2,603 | 5,606 | 8,402 | 2,265 |
| Trout | do. | 9,423 | 4,863 | 6,675 | 11,010 | | |
| Catfish | do. | 3,619 | 4,815 | 2,921 | 4,830 | 3,701 | 5,894 |
| Mulletts | do. | 32 | | 95 | 905 | 1,064 | 882 |
| Turtle | number.. | 5 | 2 | 9 | 1 | | |
| Spots | bunches.. | 1,937 | 2,362 | 2,163 | 924 | | 114 |
| Drumfish | number.. | 1 | | 16 | 31 | 1 | |
| Chubs | bunches.. | | | | | 210 | 1,440 |
| Carp | number.. | | | | | 7 | |
| Flounders | bunches.. | 27 | 26 | 626 | 1,840 | 661 | 116 |
| Shad, winter | do. | | | | 371 | 390 | 288 |
| CONDEMNATIONS. | | | | | | | |
| Oysters | bushels.. | | | 260 | 403 | | |
| Clams | number.. | 10,900 | 14,400 | 2,100 | 200 | | |
| Crabs | do. | 28,081 | 26,128 | 11,710 | 300 | | |
| Herring | do. | | 7,350 | | | | |
| Fish | bunches.. | 1,626 | 891 | 596 | 1,268 | 723 | 122 |
| Sturgeon | number.. | 1 | | | | | |

TABLE E.—*Inspections and condemnations of marine products for the year ending June 30, 1888—Continued.*

| Inspections. | 1888. | | | | | | Total. |
|----------------------------|--------|--------|---------|-----------|-----------|---------|-----------|
| | Jan. | Feb. | Mar. | April. | May. | June. | |
| Oysters.....bushels.. | 40,300 | 26,840 | 44,550 | 20,150 | 4,920 | 900 | 362,690 |
| Clams.....number.. | | | | | 564,000 | 773,000 | 2,199,000 |
| Crabs.....do..... | | | | | 120,000 | 153,800 | 570,200 |
| Shad.....do..... | | | 145 | 186,273 | 117,316 | 4,710 | 308,444 |
| Herring.....do..... | | 1,282 | 207,805 | 5,195,500 | 2,014,600 | 27,540 | 7,446,727 |
| Mackerel.....do..... | | | | | | 1,388 | 5,075 |
| Sheepshead.....do..... | | | | | 13 | 176 | 531 |
| Porgies.....do..... | | | | | | 52 | 185 |
| Striped bass.....bunches.. | 124 | 1,836 | 8,293 | 2,990 | 1,958 | 4,059 | 76,451 |
| Bluefish.....do..... | | | | | | | 20,732 |
| Croakers.....do..... | | | | | | 360 | 800 |
| Eels.....do..... | | | 135 | 1,068 | 696 | 443 | 5,159 |
| Sturgeon.....number.. | | | | 17 | 301 | 420 | 1,005 |
| Pike.....bunches.. | 642 | 918 | 2,655 | 636 | 62 | | 10,977 |
| Perch, yellow.....do..... | 1,215 | 1,900 | 5,616 | 1,607 | 108 | 231 | 15,969 |
| Perch, white.....do..... | 151 | 1,423 | 4,861 | 2,329 | 811 | 2,646 | 35,491 |
| Trout.....do..... | | | | | 8,840 | 9,000 | 49,811 |
| Catfish.....do..... | 1,589 | 1,841 | 9,762 | 660 | 3,440 | 2,403 | 45,475 |
| Mullets.....do..... | 229 | 463 | 1,460 | 4,352 | 40 | | 9,522 |
| Turtle.....number.. | | | | | 9 | 83 | 107 |
| Spots.....bunches.. | | | | | | 729 | 8,229 |
| Drumfish.....number.. | | | | | 150 | 15 | 214 |
| Chubs.....bunches.. | | | | | | | 1,680 |
| Carp.....number.. | 3 | | 21 | 2 | 92 | 8 | 133 |
| Taylors.....bunches.. | | | | | 2,060 | 5,908 | 7,968 |
| Flounders.....do..... | | | 26 | | 80 | 46 | 3,478 |
| Shad, winter.....do..... | 200 | 300 | | | | | 1,549 |
| Bass, black.....number.. | | | 73 | 1 | | | 74 |
| CONDEMNATIONS. | | | | | | | |
| Oysters.....bushels.. | | | | 60 | 620 | | 1,343 |
| Clams.....number.. | | | | | 12,700 | 21,600 | 61,900 |
| Crabs.....do..... | | | | | 22,000 | 30,400 | 118,619 |
| Shad.....do..... | | | | | 124 | | 124 |
| Herring.....do..... | | | | 15,280 | 48,100 | | 70,730 |
| Fish.....bunches.. | 133 | 432 | 890 | 2,410 | 1,308 | 650 | 11,049 |
| Sturgeon.....number.. | | | | | | 1 | 2 |
| Drumfish.....do..... | | | | | 57 | | 57 |

TABLE F.—*Inspections and condemnations of marine products for six years ending June 30, 1888.*

INSPECTIONS.

| Years. | Shad. | Herring. | Bluefish. | Fish. | Sturgeon. | Oysters. | Clams. | Crabs. |
|-----------|-----------|------------|-----------|-----------------|-----------|-----------------|------------|-----------|
| | | | | <i>Bunches.</i> | | <i>Bushels.</i> | | |
| 1883..... | 258,711 | 4,960,426 | 61,310 | 296,419 | 1,752 | 353,402 | 1,247,064 | 587,335 |
| 1884..... | 231,129 | 5,650,812 | 21,703 | 278,543 | 1,564 | 365,246 | 1,787,806 | 865,428 |
| 1885..... | 125,300 | 9,812,973 | | 279,346 | 1,320 | 283,142 | 1,442,900 | 747,500 |
| 1886..... | 189,828 | 7,008,223 | 212,110 | 231,764 | 1,537 | 333,390 | 2,105,800 | 639,900 |
| 1887..... | 265,314 | 7,886,371 | 31,487 | 271,961 | 817 | 295,550 | 2,397,000 | 737,200 |
| 1888..... | 308,444 | 7,446,727 | 103,660 | 295,987 | 1,005 | 362,690 | 2,199,000 | 570,200 |
| Total.. | 1,378,726 | 42,765,532 | 430,270 | 1,654,020 | 7,995 | 1,993,420 | 11,179,570 | 4,147,563 |

CONDEMNATIONS.

| | | | | | | | | |
|-----------|-------|---------|-----|--------|-----|--------|---------|---------|
| 1883..... | 35 | 25,363 | 55 | 12,020 | 17 | 16,387 | 59,700 | 107,160 |
| 1884..... | 275 | 23,757 | | 14,508 | 29 | 3,180 | 68,464 | 210,917 |
| 1885..... | 203 | 192,984 | | 11,609 | 34 | 2,215 | 58,228 | 190,744 |
| 1886..... | 225 | 136,700 | | 15,091 | 13 | 3,514 | 116,117 | 141,059 |
| 1887..... | 203 | 84,950 | 336 | 9,378 | 8 | 479 | 88,217 | 163,590 |
| 1888..... | 124 | 70,730 | | 11,119 | 57 | 1,343 | 61,900 | 118,619 |
| Total.. | 1,065 | 534,484 | 391 | 73,635 | 158 | 27,118 | 452,626 | 932,089 |

THE POUND SERVICE.

Tables G and H exhibit the operations of the pound service for the year ending June 30, 1888, and for the six years ending the same period. The number of animals impounded during the year as compared with 1887 shows a reduction of 307, almost entirely dogs. The number of dogs killed during the year was 2,507, the number redeemed 213. Notwithstanding the fact that the canines slaughtered number thousands year after year, the supply seems to be inexhaustible, and its source remains a mystery. The number of animals impounded during six years reached 18,722, of which 17,316 were dogs. Over 15,000 of these dogs were killed, and yet there were nearly as many taken up and impounded in 1888 as in 1884.

As I stated in my last annual report, the new police regulations make it the duty of the poundmaster to take up chickens found running at large. No provision has as yet been made, however, for the cost of the service of this kind, and until an appropriation is made providing for the necessary expense this office is powerless to act in the premises.

While discussing the pound service I desire to again call the attention of the Commissioners to what I think is the entirely inadequate pay of the laborers employed in this service. They are paid the small sum of \$1 per diem. The services that they perform, while those of a laborer, are to a certain extent expert, the majority of them having been long in the service, and it requires tact and experience to handle the net in the capture of small animals. I would again earnestly recommend that their pay be placed at not less than \$480 per annum each.

TABLE G.—Operations of the pound for the year ending June 30, 1888.

| Months. | Impounded. | | | | | | | Disposition. | | | | Amount realized from fees. | |
|-----------------|------------|--------|-------|-------|--------|--------|-------|--------------|-----------|---------|--------------|----------------------------|---------|
| | Horses. | Mules. | Cows. | Hogs. | Goats. | Geese. | Dogs. | Total. | Redeemed. | Killed. | Dogs killed. | | Sold. |
| 1887. | | | | | | | | | | | | | |
| July | 6 | ... | 24 | ... | 3 | ... | 94 | 127 | 32 | 95 | 94 | ... | \$62.00 |
| August | 5 | 1 | 1 | ... | 4 | 5 | 574 | 590 | 30 | 555 | 554 | ... | 61.00 |
| September | 1 | ... | 11 | ... | 3 | ... | 376 | 371 | 18 | 348 | 348 | ... | 43.00 |
| October | 2 | ... | 21 | 3 | 3 | 10 | 200 | 239 | 37 | 197 | 196 | ... | 60.00 |
| November | ... | 1 | 7 | ... | 3 | 10 | 213 | 234 | 19 | 213 | 211 | ... | 28.00 |
| December | ... | ... | ... | ... | ... | ... | 168 | 168 | 4 | 164 | 164 | ... | 8.00 |
| 1888. | | | | | | | | | | | | | |
| January | ... | ... | 3 | ... | ... | 1 | 53 | 57 | 3 | 54 | 53 | ... | 6.00 |
| February | 1 | ... | ... | ... | 2 | ... | 71 | 74 | 2 | 69 | 69 | 1 | 6.00 |
| March | ... | ... | ... | ... | 3 | ... | 84 | 87 | 4 | 85 | 84 | ... | 4.00 |
| April | 4 | ... | 1 | ... | 5 | ... | 261 | 271 | 14 | 255 | 254 | 1 | 26.80 |
| May | 2 | ... | ... | ... | 3 | ... | 208 | 213 | 14 | 196 | 196 | 2 | 28.00 |
| June | 4 | 2 | 17 | ... | 7 | ... | 290 | 320 | 36 | 284 | 284 | ... | 65.00 |
| Total | 25 | 4 | 85 | 3 | 36 | 26 | 2,572 | 2,751 | 213 | 2,515 | 2,507 | 22 | 397.80 |

TABLE H.—Animals impounded during the six years ending June 30, 1888.

| Years. | Horses. | Cows. | Mules. | Hogs. | Geese. | Sheep. | Goats. | Dogs. | Total. |
|-------------|---------|-------|--------|-------|--------|--------|--------|--------|--------|
| 1883 | 15 | 204 | 2 | 2 | 80 | ... | 66 | 3,007 | 3,376 |
| 1884 | 31 | 120 | 2 | 2 | 75 | ... | 29 | 2,699 | 2,958 |
| 1885 | 15 | 52 | 4 | 2 | 48 | 3 | 64 | 3,190 | 3,378 |
| 1886 | 22 | 66 | 2 | 1 | 89 | 1 | 52 | 2,968 | 3,201 |
| 1887 | 21 | 87 | ... | 2 | 16 | 2 | 50 | 2,880 | 3,058 |
| 1888 | 25 | 85 | 4 | 3 | 26 | ... | 36 | 2,572 | 2,751 |
| Total | 129 | 614 | 14 | 12 | 334 | 6 | 297 | 17,316 | 18,722 |

THE INDIGENT SICK.

In Table I following, the work done in the care of sick poor is exhibited. During the year there were 15,352 patients treated, of whom we find 4,745 white and 10,607 colored. The cost of medicines and medical attendance aggregated \$8,887, or an average cost of only 58 cents per patient. The cost of medicines furnished was \$3,607. As the population increases the pauper element appears to keep full pace with the more favored class of humanity.

The appropriation for the relief of the poor should be increased to at least \$20,000, and I think it would be well to specify the amounts to be expended for medicines and medical attendance as in other appropriations. The corps of poorly paid physicians have labored earnestly in the interest of the unfortunates placed under their care, and are accorded the thanks of the department for the manner in which their duties have been performed.

TABLE I.—*The sick poor.*

| Months | Patients treated. | White. | Colored. | Visits made. | Office consultations. | Cost of medicines furnished. |
|-----------------|-------------------|--------|----------|--------------|-----------------------|------------------------------|
| 1887. | | | | | | |
| July | 1,140 | 375 | 785 | 1,592 | 271 | \$226.60 |
| August | 1,592 | 525 | 1,067 | 2,311 | 353 | 332.65 |
| September | 1,167 | 394 | 773 | 1,644 | 302 | 241.20 |
| October | 1,103 | 401 | 702 | 1,584 | 349 | 245.50 |
| November | 1,069 | 320 | 749 | 1,583 | 208 | 264.10 |
| December | 881 | 273 | 608 | 1,340 | 215 | 205.90 |
| 1888. | | | | | | |
| January | 1,149 | 316 | 833 | 1,648 | 263 | 291.10 |
| February | 1,899 | 580 | 1,319 | 2,820 | 403 | 480.65 |
| March | 1,571 | 458 | 1,113 | 2,229 | 378 | 397.70 |
| April | 1,276 | 375 | 901 | 1,692 | 339 | 317.00 |
| May | 1,373 | 399 | 974 | 1,801 | 435 | 354.70 |
| June | 1,132 | 349 | 783 | 1,478 | 328 | 249.90 |
| Total | 15,352 | 4,745 | 10,607 | 21,722 | 3,934 | 3,607.00 |

THE REMOVAL OF OFFAL.

Table K presents the usual statement showing, by months, the amount of offal removed during the year. There were 7,863 dead animals, 20,136 tons of garbage, and 19,743 barrels of night-soil removed beyond the limits of the city. The number of dead animals removed shows a decrease as compared with last year, which can be explained by reason of the fact that an outside party engaged in the manufacture of fertilizers has been purchasing and removing carcasses, the number of which we have no means of ascertaining. The amount of garbage removed shows an increase from 1887 of over 500 tons, while the number of barrels of night-soil taken away shows a reduction of nearly 2,198 barrels for the year.

TABLE K.—*Offal removed.*

| Months. | Number of dead animals. | Tons of garbage. | Barrels of night-soil. | Months. | Number of dead animals. | Tons of garbage. | Barrels of night-soil. |
|-----------------|-------------------------|------------------|------------------------|---------------|-------------------------|------------------|------------------------|
| 1887. | | | | 1888. | | | |
| July | 1,060 | 1,536 | 1,790 | February..... | 331 | 1,077 | 933 |
| August | 1,346 | 3,558 | 2,260 | March | 342 | 1,058 | 818 |
| September | 633 | 2,651 | 2,070 | April | 781 | 1,168 | 1,630 |
| October | 510 | 1,816 | 1,790 | May | 776 | 1,589 | 2,482 |
| November..... | 531 | 1,802 | 1,800 | June | 946 | 1,388 | 1,960 |
| December | 374 | 1,311 | 1,250 | | | | |
| 1888. | | | | Total | 7,863 | 20,136 | 19,743 |
| January | 233 | 1,182 | 960 | | | | |

THE INSPECTION OF PLUMBING.

The report of the inspector of plumbing which follows shows progress in this branch of the service. The inspector asks to be provided with transportation in order that his work may be facilitated, and also that clerical services may be provided, and the valuable records connected with this service be kept in proper shape. I trust these requests will receive the consideration of the Commissioners, and that Congress be asked to furnish the necessary means to provide therefor.

I called attention in my last report to the position in which this office is placed as regards the supervision of the work of the officer named. His office being removed from that of the health officer, we are not enabled to give to the work of the inspector and his assistants the careful supervision required. I am satisfied that it would be better to have the supervision of the inspection of plumbing transferred from this department directly under the Commissioners.

The inspector asks for separate quarters from the room now afforded him in the office of the inspector of buildings, and I think the interests of the public service will be conserved by placing him and his assistants in a separate room not too far from that of the building inspector.

REPORT OF THE INSPECTOR OF PLUMBING.

SIR: I have the honor of presenting to you the following report of the operations of this office for the fiscal year ending June 30, 1888.

During the fiscal year there has been a less number of plans presented than during the year immediately preceding, but those presented were for a better or more expensive class of houses, and the requirements of this office being better understood by architects and owners, there has been very little trouble in having all the plans comply therewith. However, each set of plans requires a special examination and indorsement. The whole number of plans of new houses approved amounts to 1,550; of these 199 were for houses having water-closets and hydrants in the yard, with no plumbing fixtures inside. For each new building erected there are required an average of three inspections by myself or my assistant. In some cases a single inspection occupies several hours of careful labor.

Upon the request of interested parties 376 old houses have been inspected, in some cases four or five visits being required to complete the inspection.

It is to be regretted that Congress has so far failed to authorize the regular inspection of all buildings used as dwellings or office buildings, for until this office has such authority very bad local conditions are liable to exist in boarding-houses, hotels, and public buildings, as well as private houses, conditions which may become the initial point for a serious epidemic outbreak.

It is not my desire to be sensational, as it would seem that the literature of sanita-

tion had been almost sensational for a decade or more without reaching the halls of Congress where legislation is expected for the welfare of this District.

Yet it is best to state matters plainly and say that with all this agitation many of our public buildings are unsafe and only occupied at the imminent risk of health and life. It would seem as though the small appropriations Congress makes for sanitary improvements and repairs to buildings should not be expended for the advantage of some sanitary crank or imbecile who has some patented contrivance to introduce, but that well-established rules and methods under capable supervision should be brought to bear, and then these appropriations judiciously expended would in a few years make our magnificent public buildings something better than a menace to the health of their occupants.

If we are to make this city the winter resort of the wealth of the country, as the tendency is plainly in that direction, we must be liberal in our management of affairs for the protection of health. We must not only be clean without and within, but must be so clean that commendations of our condition may be sent out by all the correspondents, who are so quick to detect and denounce derelictions if circumstances justify it. Though it is expensive to keep clean, the consequences of neglect are far more so. From a commercial point of view there is no way in which a liberal appropriation would repay this city as by its judicious expenditure to make the sanitary condition of all our hotels, boarding and lodging houses so safe from bad plumbing that sojourners would feel a sense of security instead of the nauseating smells so many are subjected to. I do not advise that the public be taxed for this further than to secure the enforcement of rules of sanitation upon house owners irrespective of degree.

The plague of yellow fever which is now threatening the country comes from the neglect of plain rules for keeping clean on the part of somebody, and to prevent an epidemic the public must be protected from the filth of individuals. If this city should be visited by an epidemic of some filth disease during the coming or any other winter the direct damage would be greater than the expenditure of the health department for a thousand years.

Some householders are subjected to great hardships from scarcity of water through the willful waste of water upon the part of many. This waste is excessive and should be summarily dealt with through rigid official inspections, as not only entire districts are deprived of the comfortable use of water at the great risk of health, but the unfortunate delay in the completion of the new aqueduct makes it necessary to regulate the use, or at least prevent the excessive waste. This waste comes chiefly from defective plumbing fixtures and largely from the trickling waste from thousands of defective-valve water-closets. It may safely be estimated that more water runs wastefully through an ordinary valve water-closet than a dozen families require for their ordinary service. I would advise that a high water-rate be charged wherever such defective fixtures are used, and free water be furnished where approved appliances with careful use are maintained.

Much inconvenience and even sickness is sometimes caused by occupants of houses failing to turn off the water in severely cold weather, and allowing the water in the pipes to freeze. In all new work stop and waste cocks are provided and properly located, and it is only necessary for the occupants of the house to take the precaution to turn off the water at the proper time to prevent freezing. No intelligent or painstaking architect or builder will permit water pipes or plumbing fixtures to be located in exposed places, but we unfortunately have in our midst snides in the building business who will resort to any expedient to lessen the expense of his contract, not caring for the convenience or comfort of the house after completion. In addition to the freezing and bursting of water pipes there is another danger to which house owners are exposed, and a recent visit to some of our largest unoccupied houses satisfied me that very little attention has ever been paid to the subject. It is the unsealing of traps under plumbing fixtures by evaporation during the summer months, when the houses are unoccupied. This subject is presented in the following language by a distinguished architect:

"Few people need to be told that a week or two of hot weather is enough to evaporate the sealing water from the traps of wash-bowls, baths, or even water-closets, leaving an open passage from the drains into the house, through which sewer vapors flow freely, often saturating curtains, carpets, and furniture with their faint sickly odor, to salute the family on their return home in the autumn, when the system is especially susceptible to zymotic influences, and that the return of delicate persons from the country air to the stifling atmosphere of the city is generally attended with a certain depression of the vital powers, the danger of sudden exposure to the influence of a house where foul vapors have for months been floating undisturbed and their deposits accumulating and corrupting in the darkness, is evident."

My last report referred to the examination of plumbers, and much in the way of improvement was expected, but the authority of the Commissioners having been successfully contested by certain plumbers, Congress has been asked to legislate upon

the subject, but so far without avail. The following bill was approved by the Commissioners and is now before the House Committee on the District of Columbia:

[Fiftieth Congress, first session. H. R. 10059. In the House of Representatives, May 21, 1888. Read twice, referred to the Committee on the District of Columbia, and ordered to be printed.]

Mr. HEMPHILL introduced the following bill:

A BILL to authorize plumbing regulations in the District of Columbia, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Commissioners of the District of Columbia, and their successors, be, and they hereby are, authorized and empowered to make, modify, and enforce regulations governing plumbing, house drainage, and the ventilation of house sewers in the District of Columbia, and also regulations governing the examination and registration of plumbers and the practice of the business of plumbing in said District; and that the said Commissioners, and their successors, be, and they hereby are, further authorized and empowered to prescribe reasonable penalties for the violation of any of the regulations hereby authorized, which penalties may be enforced in any court of the District of Columbia having jurisdiction of minor offenses, and in the same manner as such minor offenses are now, or hereafter may be, by law prosecuted and punished.

SEC. 2. That the said Commissioners of the District of Columbia, and their successors, be, and they hereby are, authorized and empowered to appoint an inspector of plumbing, in and for said District, whose duty it shall be, under the direction of the said Commissioners, and he is hereby empowered accordingly, to inspect, or cause to be inspected, all houses when in course of erection in said District to see that the plumbing, drainage, and ventilation of sewers thereof conform to the regulations hereinbefore provided for, and also at any time, during reasonable hours, under the like direction, to inspect, or to cause to be inspected, any house in the said District, to examine the plumbing, drainage, and ventilation of sewers thereof, and generally to see that the regulations hereinbefore provided for are duly observed and enforced.

SEC. 3. That all laws and parts of laws inconsistent herewith be, and they hereby are, repealed.

If the authorities are to succeed in this crusade against bad plumbing, they must be invested with some control over bad plumbers.

It is lamentable that house owners employ the cheapest plumber regardless of personal character, upon which so much depends, as even under the most rigid inspections it is difficult to detect the dangerous work of the rascal. The importance of the plumber's work in relation to the public health can not be overestimated and some standard of intelligence and integrity should be required, quite as much as in the dispensation of drugs, or in the diagnosis of diseases. Yet every effort for the elevation of the trade or improvement in its methods has been resisted by men engaged in the business who, if capable and honest, are the first ones to be benefited.

The sanitary condition of our public schools has been greatly improved since the recommendations in my previous report have been carried out, as far as the appropriation made by Congress would permit. Another appropriation, however, is needed to reconstruct the yard closets and the apartments in which they are located belonging to some of the old school-houses. The dry-closet system having been adopted by the Commissioners and introduced in twenty school buildings, it may be proper for me to give some explanation of the practical workings of this system, as it is now in use in connection with Smead's system of heating and ventilation.

"Fresh air from out of doors is supplied in such quantities as may be desired, which is heated by furnaces and passes through various flues into each school room. The same volume of air enters the room constantly and the proportion of warm and cold can be regulated by the teacher according to the requirements.

"After circulating through the room it passes out through grated openings which are placed at short intervals in the baseboards on the outer boundaries of the room. This warm air then passes under the floor, heating it sufficiently to warm the feet, and is carried to the foul-air room in the basement. From thence it is drawn, by way of arched openings in the brick wall, through the privy vaults, beneath the seats, to the brick foul-air chimney, whence it escapes into the open air. The philosophy of the arrangement is exceedingly simple. This current is created by the natural disposition of heated air to rise, and the draught thus produced in the stack is amply sufficient for the purpose. For use in summer a small heater is built in the wall at the base of the stack, and when the draught is not sufficiently strong without it (as perhaps on damp muggy days) a fire may be quickly kindled here, and the hot air rising through the stack at once stimulates the draught to any required extent."

I have examined these closets under all circumstances and conditions since they

have been in use, and I find them at all times working satisfactorily, the air in the rooms being purer than where plumbing fixtures are located.

My assistant, Mr. Murphy, has performed his duties faithfully, but we have been unable to give that attention this important work demands for the want of time and transportation. Provision having been made for another assistant gives us great encouragement for the future. It is to be hoped now a clerk will be allowed for this office, as heretofore I have been unable to discharge fully my office duties, which are becoming more and more laborious, and at the same time follow up all the outdoor work.

Each year I have called attention, without avail, to the importance of having transportation and the great good that could be accomplished by making more frequent inspections of houses in course of erection, alteration, and repair. For some time I furnished a conveyance at my own expense, but both carriage and horse have been worn out in the service.

I am more than ever convinced of the necessity of having my office in close proximity to the office of the inspector of buildings, to facilitate public business, but, being confined to one room, crowded nearly all the time with persons seeking information, it is impossible for me to give proper attention to my official duties, and I again ask that the attention of the Commissioners be called to the importance of providing a separate room and better accommodations for my office.

Thanking you for your confidence in the past and hoping I may merit the same in the future, I remain,

Very respectfully, your obedient servant,

SAM'L A. ROBINSON,
Inspector of Plumbing.

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

MEDICAL SANITARY INSPECTION.

The following report of the medical sanitary inspector contains facts on the various subjects pertaining to this branch of the service which will be of interest to the reader.

The action taken to prevent the introduction of the infection of cholera into this city, at the time of the arrival of the vessels at the port of New York, will give evidence of the diligence of the department.

The inspector again calls attention to the necessity for a general re-vaccination, in order that the unprotected may be protected in the event of an introduction of small-pox into our midst.

The tabular statements presented by the inspector, showing deaths from certain zymotic diseases, covering a period of twelve calendar years, will prove of interest to the student of vital statistics. The dissertation as to the susceptibility of the two races—the white and colored—to certain diseases will also give food for thought to those interested in this important question.

Attention is called to the necessity for proper appliances for disinfection, and destruction of infected bedding, clothing, etc.

To this necessity I have heretofore called attention, and desire to say that it is most important that action should not be delayed in providing for this very important work. There are a number of appliances used by various health organizations, any one of the more improved of which might be procured, and I would earnestly recommend that the attention of Congress be called to this subject, and an appropriation asked for the purpose. It would be necessary in connection with the purchase of such apparatus to also provide for the place where it could be used. The site of the present small-pox hospital has been complained of by the authorities at the United States jail as well as those of the Washington Asylum.

This would be our only place of resort in case of any emergency, and it would be advisable to take into consideration the establishment, at some other point more removed from habitation, of a proper pest-house with all necessary appliances. The importance of this matter should not be overlooked.

REPORT OF THE MEDICAL SANITARY INSPECTOR.

SIR: The past year has been one of average mortality. The total number of deaths (5,040) is slightly in excess of the previous year, but the estimated increase of population brings the death-rate down to within .19 of that of last year and below the mean rate for the past thirteen years. Cholera, yellow fever, and small-pox have each claimed the attention and excited the apprehension of the health authorities of the United States, but neither disease has as yet made its appearance in our midst. Some uneasiness was caused last October by the report that two Italians had arrived in the city direct from an infected port. On investigation it was found that Guiseppe Gatto and Saverio Pusateri left Palermo on the 25th of September, 1888, on the mail steamer for Naples. On the 26th they embarked on the *Independente*. After a voyage of nineteen days they arrived at New York and two days later came to this city. Their baggage was fumigated and every person with whom it could be ascertained that they had come in more immediate contact was kept under observation for a period of two weeks. On the 21st of November a communication was received from the State board of health of New York giving the names of five passengers from the *Alesia* released from quarantine in New York Bay and supposed to be bound for Washington. A diligent search, in which I was assisted by Sergt. Charles Lombardy, of the Metropolitan police force, failed to find them, and it is confidently asserted that they had not arrived at the time that the search was abandoned. This instance shows how easy it is for persons leaving the sea ports to elude the observation of health officials under the present system.

Small-pox, though reported during the past six months in twenty-one States, has not gained an entrance into the District; but I would call attention to the suggestion of last year in regard to vaccination, as every year that passes without a case of small-pox increases the danger of an epidemic when the disease may be introduced.

Measles has been epidemic during the winter and spring, the mortality returns showing 159 deaths from this cause. This visitation, however, has not been as fatal as that of four years ago, when there were 179 deaths from measles, while during the same year scarlet fever prevailed extensively and resulted fatally in 168 cases; this year we have only 19 deaths to record from the latter disease. Diphtheria has been less fatal than for any year since 1884. Typhoid fever appears to be again on the increase, and typho-malarial and malarial fevers show a decrease.

The following table, it is hoped, will be of interest to those studying aetiology:

Table showing the deaths from measles, scarlet fever, diphtheria, croup, typhoid fever, typho-malarial and malarial fevers, for the twelve years ending June 30, 1888; also the deaths from consumption by sex and color for the twelve years ending December 31, 1887.

| Year. | Measles. | | | Scarlet fevers. | | | Diphtheria. | | | Croup. | | |
|------------|---------------|--------|----------|-----------------|--------|----------|---------------|--------|----------|---------------|--------|----------|
| | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. |
| 1877..... | 11 | 7 | 4 | 120 | 105 | 15 | 49 | 38 | 11 | 39 | 31 | 8 |
| 1878..... | 7 | 2 | 5 | 146 | 107 | 39 | 140 | 101 | 39 | 56 | 35 | 21 |
| 1879..... | 10 | 7 | 3 | 129 | 117 | 12 | 79 | 60 | 19 | 50 | 34 | 16 |
| 1880..... | 1 | ..... | 1 | 28 | 21 | 7 | 29 | 23 | 6 | 45 | 27 | 18 |
| 1881..... | 8 | 6 | 2 | 26 | 25 | 1 | 124 | 106 | 18 | 89 | 64 | 25 |
| 1882..... | 2 | 1 | 1 | 35 | 31 | 4 | 116 | 82 | 34 | 55 | 38 | 17 |
| 1883..... | 6 | 5 | 1 | 125 | 106 | 19 | 85 | 63 | 22 | 24 | 20 | 4 |
| 1884..... | 179 | 83 | 96 | 168 | 133 | 35 | 42 | 35 | 7 | 38 | 25 | 13 |
| 1885..... | 9 | 2 | 7 | 137 | 113 | 24 | 77 | 53 | 24 | 42 | 31 | 11 |
| 1886..... | 3 | 2 | 1 | 48 | 33 | 15 | 88 | 49 | 39 | 26 | 12 | 14 |
| 1887..... | 14 | 11 | 3 | 15 | 11 | 4 | 72 | 55 | 17 | 25 | 19 | 6 |
| 1888..... | 159 | 97 | 62 | 19 | 17 | 2 | 69 | 56 | 13 | 27 | 23 | 4 |
| Total..... | 409 | 223 | 186 | 996 | 819 | 177 | 970 | 721 | 249 | 516 | 359 | 157 |
| Mean..... | 34.08 | 18.58 | 15.5 | 83.00 | 68.25 | 14.75 | 80.83 | 60.0 | 20.75 | 43.0 | 29.92 | 13.08 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 661

Table showing the deaths from measles, scarlet fever, etc.—Continued.

| Year. | Typhoid fever. | | | Typho-malarial fever. | | | Malarial fevers. | | | Consumption. | | | | |
|-----------|----------------|--------|----------|-----------------------|--------|----------|------------------|--------|----------|---------------|--------|---------|----------|---------|
| | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | Colored. | Total deaths. | White. | | Colored. | |
| | | | | | | | | | | | Male. | Female. | Male. | Female. |
| 1876 | | | | | | | | | | 624 | 178 | 146 | 128 | 172 |
| 1877 | 82 | 54 | 28 | 46 | 32 | 14 | 52 | 23 | 29 | 621 | 165 | 154 | 121 | 181 |
| 1878 | 101 | 67 | 34 | 31 | 21 | 10 | 55 | 28 | 27 | 722 | 156 | 201 | 158 | 207 |
| 1879 | 74 | 45 | 29 | 25 | 12 | 13 | 51 | 26 | 25 | 691 | 167 | 158 | 158 | 208 |
| 1880 | 84 | 44 | 40 | 20 | 14 | 6 | 48 | 21 | 27 | 760 | 180 | 179 | 166 | 235 |
| 1881 | 67 | 41 | 26 | 31 | 17 | 14 | 99 | 41 | 58 | 817 | 195 | 176 | 192 | 254 |
| 1882 | 120 | 74 | 46 | 44 | 26 | 18 | 112 | 55 | 57 | 737 | 167 | 168 | 179 | 223 |
| 1883 | 92 | 49 | 43 | 38 | 15 | 23 | 93 | 51 | 42 | 772 | 186 | 176 | 169 | 241 |
| 1884 | 76 | 53 | 23 | 34 | 20 | 14 | 66 | 33 | 33 | 805 | 200 | 192 | 188 | 225 |
| 1885 | 124 | 83 | 41 | 30 | 16 | 14 | 78 | 43 | 35 | 832 | 187 | 185 | 187 | 253 |
| 1886 | 128 | 81 | 47 | 17 | 8 | 9 | 54 | 33 | 21 | 790 | 195 | 169 | 194 | 232 |
| 1887 | 116 | 72 | 44 | 22 | 11 | 11 | 99 | 47 | 52 | 705 | 169 | 177 | 149 | 210 |
| 1888 | 168 | 95 | 73 | 14 | 7 | 7 | 61 | 30 | 31 | ..... | ..... | ..... | ..... | ..... |
| Total ... | 1,232 | 760 | 472 | 352 | 199 | 153 | 870 | 431 | 439 | 8,856 | 2,145 | 2,081 | 1,989 | 2,641 |
| Mean .. | 102.66 | 63.33 | 39.33 | 29.33 | 16.58 | 12.75 | 72.5 | 35.9 | 36.58 | 738.0 | 178.75 | 173.42 | 165.75 | 220.08 |

The belief is entertained that the whites are more susceptible than the colored race not only to scarlet fever but also to diphtheria, croup, typhoid fever, and measles. The fact that the deaths of the colored are shown to be relatively greater from the two latter diseases may be explained in several ways. First, the sanitary surroundings and want of intelligent nursing; many otherwise mild cases dying from neglect. Then again, their alimentary and respiratory organs seem to be less able to withstand the attacks of disease, and the bronchitis, which is an essential but not usually serious part of measles, very frequently in the colored child is the beginning of changes which terminate in death. This is further illustrated in whooping cough, which is relatively about three times as fatal among colored children as among their white neighbors. The third explanation is, that many of those returned as colored were half-breeds, who acquired their susceptibility to these diseases from their admixture of white blood.

The necessity for more ample facilities for the removal and destruction of infected bedding, clothing, etc., and the need of apparatus for the proper and speedy disinfection of suspected articles is daily felt. Our present method is antiquated and should be improved. At a small cost much more might be done to prevent the spread of disease germs.

Certificates of death have been furnished for fifty eight persons who died without regular medical attendance. Still-birth certificates have been given for eighteen white and for seventy three colored still-born infants.

Twenty-two cases have been examined at the request of the police department, to determine the propriety of admission of patients to the hospitals and insane asylum.

Very respectfully,

B. G. POOL, M. D.,
Medical Sanitary Inspector.

SMITH TOWNSEND, M. D.,
Health Officer, District of Columbia.

STREET AND ALLEY CLEANING.

The supervision of the service of street, avenue, and alley cleaning was placed under the department by order of the Commissioners of February 6, 1888. As I stated in the introduction to this report, I do not feel that I should enter into an elaborate discussion of the details of this service. Tabular statements follow, showing the schedules in operation for the fiscal year ending June 30, 1887, and the fiscal year ending June 30, 1889. The omission of the year 1888 for purposes of comparison will be obvious.

The daily work of cleaning of streets and avenues in 1887 aggregated 112,956 square yards. The schedule for 1889 aggregates 157,140 square yards, showing a daily increase of 44,184 square yards. The number of yards cleaned daily on the streets swept tri-weekly in 1887 aggregated 9,867 square yards; in 1889, 90,489 square yards, an increase of 622 square yards. On the streets swept semi-weekly in 1887 the number of square yards aggregated 132,601; in 1889 they aggregated 418,060, an increase of 285,459 square yards. On the streets swept bi-weekly in 1887, the amount aggregated 762,796 square yards, while for 1889 it is only 425,452, showing a decrease of 337,343 square yards. The average of work performed on streets swept weekly in 1887 aggregated 677,736 square yards, while for the year 1889 the aggregate reaches 942,840 square yards, an increase of 265,104 over the year named. On streets swept tri-weekly the difference is between 269,601 for 1887 and 271,467 for 1889, a decrease in the weekly average of 1,866 square yards. The semi-weekly schedule shows an average weekly increase of 570,918 square yards for the year 1889, as compared with 1887, caused mainly by the addition of streets previously swept tri-weekly. The average on the streets to be swept weekly has increased over 1887 to the extent of 175,311 square yards, while on the bi-weekly streets a decrease of 168,672 square yards is shown, caused mainly by the addition of streets to the weekly and semi-weekly schedules.

The department has been called upon to do a large amount of work on the unimproved streets and alleys, principally cleaning of gutters and the removal of accumulations of filth. It is estimated that \$25,000 can be judiciously expended in this way from the appropriation for 1890. The service, I am satisfied, has improved materially during the past year, in the character of machines employed, as well as the manner of performance of the work.

The following tabular statements will suffice, I trust, to give a sufficient exhibition of the service until the department may have further time to more carefully study its operations in detail.

Schedules in operation for sprinkling, sweeping, and cleaning of streets and avenues for the fiscal year ending June 30, 1887 (as shown in the annual report of the Commissioners for 1885-'86), and for the year ending June 30, 1889.

FOR THE YEAR ENDING JUNE 30, 1887.

| Locality. | Square yards. | Locality. | Square yards. |
|--|---------------|--|---------------|
| <i>Daily (except Sunday).</i> | | | |
| Penn ave., N. W., from 1st to 17th st .. | 104,700 | La. ave., N. W., from from 8th to 10th st. | 6,120 |
| C st., N. W., from 7th to 8th st | 1,275 | 12th st., N. W., from B to Water st ... | 15,110 |
| E st., N. W., from 13th to Penn. ave .. | 1,581 | Opera Square | 600 |
| 15th st., N. W., from Penn. to N. Y ave .. | 5,400 | Mt. Vernon Square, from 7th to 9th st.. | 5,124 |
| | | D st., N. W., from 6th to 10th st | 6,278 |
| | | G st., N. W., from 17th to 22d st | 10,623 |
| | 112,956 | | 132,601 |
| <i>Tri weekly.</i> | | <i>Weekly.</i> | |
| Penn ave., N. W., from 17th to 29th st .. | 44,570 | 131 streets and avenues | 1,488,271 |
| 7th st., N. W., from Penn. ave. to B st .. | 1,813 | | |
| 9th st., N. W., from Penn. ave. to B st .. | 2,786 | <i>Bi-weekly.</i> | |
| F st., N. W., from 7th to 15th st | 21,735 | 112 streets and avenues | 762,796 |
| M st., N. W., from 29th to 34th st | 18,983 | | |
| | 89,867 | <i>Average per week.</i> | |
| <i>Semi-weekly.</i> | | For the daily streets (6 times a week) .. | 677,736 |
| 7th st., N. W., from Penn. av to Q. st. | 35,930 | For the tri-weekly streets | 269,601 |
| 7th st., N. W., from B to Water st | 28,900 | For the semi-weekly streets | 265,202 |
| 9th st., N. W., from Penn. to Mass. ave .. | 20,296 | For the weekly streets | 1,488,271 |
| Little B st., N. W., from 10th to 12th st .. | 3,620 | For the bi-weekly streets | 381,398 |
| | | Total average per week | 3,082,208 |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA 663

Schedules in operation for sprinkling, sweeping, and cleaning of streets, etc.—Continued.

FOR THE YEAR ENDING JUNE 30, 1889.

| Locality. | Square yards. | Locality. | Square yards. |
|--|---------------|--|---------------|
| <i>Daily except Sundays.</i> | | | |
| Penn. ave., N. W., from 1st to 17th st.... | 104,700 | 10th st., N. W., from Penn. ave. to B st., north | 2,350 |
| 1st st., N. W., from 7th to 8th st. | 1,275 | 11th st., N. W., from Penn. ave. to B st., north | 3,630 |
| 1st st., N. W., from 14th to Penn. ave. | 1,581 | 14th st., N. W., from Penn. ave. to Bldg | 62,489 |
| 12th st., N. W., from Penn. to N. Y. ave. | 5,480 | 15th st., N. W., from N. Y. ave. to K st. | 6,107 |
| 7th st., N. W., from B to Mt. Vernon Sq. | 13,543 | 17th and 19th sts., N. W., from Penn. ave. | 4,000 |
| 9th st., N. W., from B st. to Penn. ave. | 2,786 | to H st. | 7,020 |
| F st., N. W., from 7th to 15th st. | 21,735 | 17th st., N. W., from Penn. ave. to K st. | 9,987 |
| 1st ave., N. W., from 8th to 14th st. | 6,129 | 18th st., N. W., from 15th to 19th st. | 18,037 |
| | 157,149 | H st., N. W., from 15th to 19th st. | 62,150 |
| <i>Tri-weekly.</i> | | | |
| Penn. ave., N. W., from 17th to 29th st. | 41,550 | R. I. ave., N. W., from Conn. ave. to Scott Circle | 5,400 |
| M st., N. W., from 29th to 34th st. | 18,983 | Vermont ave., N. W., from H to R st. | 21,366 |
| 29th st., N. W., from Penn. ave. to M st. | 1,355 | Conn. ave., N. W., from H st. to Dupont Circle | 16,260 |
| G st., N. W., from 17th to 22d st. | 10,643 | | 418,060 |
| D st., N. W., from 14th to 16th st. | 6,278 | | |
| 9th st., N. W., from Penn. ave. to G st. | 8,000 | | |
| | 80,489 | | |
| <i>Semi-weekly.</i> | | | |
| 7th st., N. W., from Mt. Vernon Square to D st. | 22,187 | <i>Weekly.</i> | |
| 7th st., N. W., from B to Water st. | 28,961 | 146 streets and avenues..... | 1,663,582 |
| 9th st., N. W., from G st. to Mass. ave. | 11,206 | | |
| 11th st., N. W., from 10th to 12th st. | 5,620 | <i>Bi-weekly.</i> | |
| 12th st., N. W., from B to Water st. | 15,110 | 43 streets and avenues..... | 425,453 |
| Open Square | 100 | | |
| Mt. Vernon Square, from 7th to 9th st. | 5,124 | <i>Average per week.</i> | |
| 1st st., N. W., from B to F st., north | 19,069 | For the daily streets (6 times a week) .. | 942,840 |
| 14th st., N. W., from Penn. ave. to I st. | 16,800 | For the tri-weekly streets | 271,467 |
| 24th st., N. W., from Penn. to N. Y. ave. | 21,067 | For the semi-weekly streets | 806,120 |
| 6th st., N. W., from Mt. Vernon to Bldg | 2,000 | For the weekly streets | 1,663,582 |
| 32d st., N. W., from D to O st. | 19,440 | For the bi-weekly streets | 212,736 |
| | | Total average per week..... | 3,926,745 |

Number of square yards of streets, avenues, and alleys sprinkled, swept, and cleaned during the year ending June 30, 1888.

| Month. | Streets and avenues. | Alleys. | Month. | Streets and avenues. | Alleys. |
|-----------------|----------------------|-----------|-------------------|----------------------|-------------|
| <i>1887.</i> | | | | | |
| July | 15,639,791 | 3,281,060 | February..... | 4,644,504 | 546,958 |
| August | 18,983,378 | 3,444,078 | March | 5,329,934 | 753,366 |
| September | 16,714,658 | 3,268,729 | April..... | 10,561,182 | 3,016,640 |
| October | 15,753,619 | 1,292,904 | May..... | 8,565,071 | 2,204,612 |
| November | 15,588,573 | 1,361,374 | June | 9,490,225 | 2,495,138 |
| December | 6,589,364 | 1,283,364 | Total | 129,659,408 | 23,552,373 |
| <i>1888.</i> | | | | | |
| January..... | 3,798,825 | 632,580 | Grand total | | 153,211,781 |

NOTE.—An increase is shown in the number of square yards to be swept and cleaned weekly in 1888-89 of the paved streets and alleys alone, as compared with the schedule for 1886-87, as follows:

| | Square yards. |
|---|---------------|
| Daily streets (except Sundays) | 265,104 |
| Tri-weekly streets (except Sundays) | 1,866 |
| Semi-weekly streets (except Sundays) | 570,918 |
| Weekly streets (except Sundays) | 175,311 |
| | 1,013,199 |
| And a decrease in bi-weekly streets of..... | 168,672 |
| Total increase..... | 844,527 |

The daily work of cleaning of streets and avenues in 1887 aggregated 112,956 square yards. The schedule for 1889 aggregates 157,140 square yards, showing a daily increase of 44,184 square yards. The number of yards cleaned daily on the streets swept tri-weekly in 1887 aggregated 89,867 square yards; in 1889, 90,489 square yards, an increase of 622 square yards. On the streets swept semi-weekly in 1887 the number of square yards aggregated 132,601; in 1889 they aggregated 418,060, an increase of 285,459 square yards. On the streets swept bi-weekly in 1887, the amount aggregated 762,796 square yards, while for 1889 it is only 425,452, showing a decrease of 337,343 square yards. The average of work performed on streets swept weekly in 1887 aggregated 677,736 square yards, while for the year 1889 the aggregate reaches 942,840 square yards, an increase of 265,104 over the year named. On streets swept tri-weekly the difference is between 269,601 for 1887 and 271,467 for 1889, a decrease in the weekly average of 1,866 square yards. The semi-weekly schedule shows an average weekly increase of 570,918 square yards for the year 1889, as compared with 1887, caused mainly by the addition of streets previously swept tri-weekly. The average on the streets to be swept weekly has increased over 1887 to the extent of 175,311 square yards, while on the bi-weekly streets a decrease of 168,672 square yards is shown, caused mainly by the addition of streets to the weekly and semi-weekly schedules.

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FOR THE YEAR ENDING JUNE 30, 1887.

| Locality. | Square yards. | Locality. | Square yards. |
|---|---------------|---|---------------|
| <i>Daily (except Sunday).</i> | | | |
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| C st., N. W., from 7th to 8th st | 1,275 | 12th st., N. W., from B to Water st ... | 15,110 |
| E st., N. W., from 13th to Penn. ave .. | 1,581 | Opera Square | 600 |
| 15th st., N. W., from Penn. to N. Y ave .. | 5,400 | Mt. Vernon Square, from 7th to 9th st.. | 5,124 |
| | | D st., N. W., from 6th to 10th st | 6,278 |
| | | G st., N. W., from 17th to 22d st | 10,623 |
| | 112,956 | | 132,601 |
| <i>Tri weekly.</i> | | <i>Weekly.</i> | |
| Penn ave., N. W., from 17th to 29th st.. | 44,570 | 131 streets and avenues | 1,488,271 |
| 7th st., N. W., from Penn. ave to B st.. | 1,813 | | |
| 9th st., N. W., from Penn. ave. to B st.. | 2,786 | <i>Bi-weekly.</i> | |
| F st., N. W., from 7th to 15th st..... | 21,735 | 112 streets and avenues | 762,796 |
| M st., N. W., from 29th to 34th st. | 18,983 | | |
| | 89,867 | <i>Average per week.</i> | |
| <i>Semi-weekly.</i> | | For the daily streets (6 times a week) .. | 677,736 |
| 7th st., N. W., from Penn. av to Q. st.... | 35,920 | For the tri-weekly streets | 269,601 |
| 7th st., N. W., from B to Water st | 28,900 | For the semi-weekly streets | 265,202 |
| 9th st., N. W., from Penn. to Mass. ave. | 20,296 | For the weekly streets | 1,488,271 |
| Little B st., N. W., from 10th to 12th st.. | 3,620 | For the bi-weekly streets | 381,398 |
| | | Total average per week | 3,082,208 |

Schedules in operation for sprinkling, sweeping, and cleaning of streets, etc.—Continued.

FOR THE YEAR ENDING JUNE 30, 1889.

| Locality. | Square yards. | Locality. | Square yards. |
|---|---------------|---|---------------|
| <i>Daily (except Sundays).</i> | | | |
| Penn. ave., N. W., from 1st to 17th st. | 104,700 | 10th st., N. W., from Penn. ave. to B st., north | 2,350 |
| C st., N. W., from 7th to 8th st. | 1,275 | 11th st., N. W., from Penn. ave. to B st., north | 3,630 |
| E st., N. W., from 13th to Penn. ave. | 1,581 | 14th st., N. W., from Penn. ave. to B'dy. | 62,489 |
| 15th st., N. W., from Penn. to N. Y. ave. | 5,400 | 15th st., N. W., from N. Y. ave. to K st. | 6,107 |
| 7th st., N. W., from B to Mt. Vernon Sq. | 13,543 | 15½ and 16½ sts., N. W., from Penn. ave. to H st. | 4,000 |
| 9th st., N. W., from B st. to Penn. ave. | 2,786 | 17th st., N. W., from Penn. ave. to K st. | 7,020 |
| F st., N. W., from 7th to 15th st. | 21,735 | C st., N. W., from Ind. ave. to 7th st. | 9,987 |
| La. ave., N. W., from 8th to 10th st. | 6,120 | H st., N. W., from 15th to 19th st. | 18,037 |
| | 157,140 | K st., N. W., from N. Cap. st. to Washington Circle | 62,150 |
| <i>Tri-weekly.</i> | | R. I. ave., N. W., from Conn. ave. to Scott Circle | 5,400 |
| Penn. ave., N. W., from 17th to 29th st. | 44,550 | Vermont ave., N. W., from H to R st. | 21,366 |
| M st., N. W., from 29th to 34th st. | 18,983 | Conn. ave., N. W., from H st. to Dupont Circle | 16,260 |
| 26th st., N. W., from Penn. ave. to M st. | 1,155 | | 418,060 |
| G st., N. W., from 17th to 22d st. | 10,623 | <i>Weekly.</i> | |
| D st., N. W., from 6th to 10th st. | 6,278 | 146 streets and avenues | 1,663,582 |
| 9th st., N. W., from Penn. ave. to G st. | 8,900 | <i>Bi-weekly.</i> | |
| | 90,489 | 43 streets and avenues | 425,453 |
| <i>Semi-weekly.</i> | | <i>Average per week.</i> | |
| 7th st., N. W., from Mt. Vernon Square to O st. | 22,387 | For the daily streets (6 times a week) | 942,840 |
| 7th st., N. W., from B to Water st. | 28,901 | For the tri-weekly streets | 271,467 |
| 9th st., N. W., from G st. to Mass. ave. | 11,396 | For the semi-weekly streets | 836,120 |
| Little B st., N. W., from 10th to 12th st. | 3,620 | For the weekly streets | 1,663,582 |
| 12th st., N. W., from B to Water st. | 15,110 | For the bi-weekly streets | 212,736 |
| Opera Square | 600 | Total average per week | 3,926,745 |
| Mt. Vernon Square, from 7th to 9th st. | 5,124 | | |
| 1st st., N. W., from B to F st., north | 19,660 | | |
| 2d st., N. W., from Penn. ave. to I st. | 16,600 | | |
| 3d st., N. W., from Penn. to N. Y. ave. | 21,017 | | |
| 6th st., N. W., from Mo. ave. to B'dy. | 56,000 | | |
| 5th st., N. W., from D to O st. | 19,400 | | |

Number of square yards of streets, avenues, and alleys sprinkled, swept, and cleaned during the year ending June 30, 1888.

| Month. | Streets and avenues. | Alleys. | Month. | Streets and avenues. | Alleys. |
|-----------|----------------------|-----------|-------------|----------------------|-------------|
| 1887. | | | 1888. | | |
| July | 15,639,791 | 3,281,060 | February | 4,644,594 | 546,958 |
| August | 16,983,378 | 3,434,078 | March | 5,329,934 | 753,366 |
| September | 16,714,658 | 3,268,729 | April | 10,561,182 | 3,016,640 |
| October | 15,753,810 | 1,292,904 | May | 8,565,071 | 2,204,612 |
| November | 15,588,573 | 1,361,374 | June | 9,490,225 | 2,495,138 |
| December | 6,589,564 | 1,283,934 | Total | 129,659,408 | 23,552,373 |
| 1888. | | | Grand total | | |
| January | 3,798,825 | 613,580 | | | 153,211,781 |

NOTE.—An increase is shown in the number of square yards to be swept and cleaned weekly in 1888-'89 of the paved streets and alleys alone, as compared with the schedule for 1886-'87, as follows:

| | Square yards. |
|--|---------------|
| Daily streets (except Sundays) | 265,104 |
| Tri-weekly streets (except Sundays) | 1,866 |
| Semi-weekly streets (except Sundays) | 570,918 |
| Weekly streets (except Sundays) | 175,311 |
| | 1,013,199 |
| And a decrease in bi-weekly streets of | 168,672 |
| Total increase | 844,527 |

THE DISPOSAL OF THE DEAD.

In several of my reports I have called attention to the subject of the disposal of the dead, and I desire to reiterate, in terms as strong as possible, that in my opinion the time has well-nigh arrived when this subject must be taken into earnest consideration. The days for cemeteries are passing rapidly by, and I believe that ere long the few crematories which have been established in the United States will be largely multiplied. We are told that "the Jews used cremation in the Vale of Tophet when a plague came, and the modern Jews of Berlin, and the Jews of Spain and Portugal, at Mile End Cemetery, have been among the first to welcome the lately revived process." Science has shown us that burning merely produces quickly what putrefaction takes a long time to accomplish. There is no longer any question as to the fact that cemeteries in the immediate neighborhood of cities or towns are unsafe. It is stated on good authority that the great Paris cemeteries inflict headache, diarrhea, and ulcerated sore throat on their immediate neighbors; and no end of testimony might be brought to the same end as regards burial grounds where population is centralized in all countries. W. C. Smith, in the *Encyclopedia Britannica*, says:

The danger is strikingly illustrated in the careful planting of trees and shrubs to absorb the carbonic acid. Vault burial in metallic coffins, even when sawdust charcoal is used, is still more dangerous than ordinary burial. It must also be remembered that the cemetery system can only be temporary. The soil is gradually filled with bones; houses crowded around; the law itself permits the re-opening of graves at the expiration of fourteen years. We shall not, indeed, as Brown says, "be knaved out of our graves to have our skulls made drinking bowls and our bones turned into pipes." But on this ground of sentiment cremation would certainly prevent any interruption of that sweet sleep and calm rest which the old prayer that the earth might lie lightly has associated with the grave. And in the meantime we should escape the horrors of putrefaction and of the small cold worm that fretteth the enshrouded form.

I believe thoroughly with the celebrated Swiss physician, Dr. Vegmann Ercolani, and the title of his book, "*Cremation the Most Rational Method of Disposing of the Dead*." To attempt to enter fully into the subject, giving all the reasons why, in my opinion, cemeteries should be dispensed with and the disposal of the dead by cremation resorted to, would occupy too much space and accomplish too little of its object at the present time. I have mentioned the subject in this way only for the purpose of giving the people in the District an opportunity to consider and to become more familiar with this subject of cremation. I hope the time will not be long distant before we have established within our community a suitable institution for the incineration of human remains.

GENERAL RECOMMENDATIONS.

Chemist.—I have heretofore called the attention of the Commissioners to the urgent necessity for providing this office with the service of a competent chemist. This need has been keenly felt during the past year.

In my letter of April 10, I called attention to the current reports relative to adulteration of food and drink in this city, and stated in terms as strong as possible the necessity for having the entire time of a competent, reliable analyst at the disposal of the department. There is hardly a board of health or health department in any city with a population over 2,500 not properly provided with such assistance.

Professor Richardson, who is employed as inspector of asphalt and cement under the engineer department, and who has been doing a small

amount of emergency work for us, informed me in April last that it would only be possible for him to give a portion of one day in the week to any work of ours, confining his analyses to six samples, and further that after July 1 his time would be much more occupied by his legitimate duties. In view of these facts I trust that the Commissioners will urge upon the attention of the committees in Congress the paramount importance of providing for the service of such an official to be attached to this department.

Clerical services.—I have asked in each of my reports for the past three years, and have also stated in the estimates made by this department the necessity for an increase of our clerical force.

With an increase in our population from 170,000 in 1878 to 225,000 at the present time the same clerical force is called upon to do the work of this department. There has been a very large increase in the number of births, marriages, and deaths to be recorded; the work of the inspectors of all classes, which must also be made of record, has increased to more than double that of ten years ago, and so it is with every branch of the service; the indexes are running behind and other important work must be neglected. I hope that this important matter will not be overlooked at the coming session of Congress.

Garbage.—The amount appropriated for the collection and removal of garbage annually is \$15,000. This service is increasing yearly and the sum is entirely inadequate for the purpose.

Notwithstanding the fact that a contract has been entered into for a period of five years, giving the figures named as the amount to be paid, I trust that it may be possible to secure an additional amount to this appropriation—I would say not less than \$25,000. It is impossible to get contractors to perform more work than that for which paid, and I am satisfied that the garbage can not be collected and removed from this city in accordance with the terms of the contract for less than the latter-named amount.

City wharf.—If there is one thing more than another demanded in connection with the city government it is the establishment of a suitable city wharf—a wharf where all fish, oysters, and produce coming to the city by way of the Potomac should be received and passed through the hands of the inspectors. The wharf at present designated as a fish wharf, the privilege for use of which is sold annually to the highest bidder, is a disgrace to the city. It is unpaved, unsewered, and the soil in its vicinity saturated with the decomposed animal matter coming from the work of cleaning, handling, and packing of fish. The oyster wharf is in but little better condition. While there is no general point designated for receipt of produce, watermelons, it is true, come to the same wharf in summer as do the oysters in winter. I would urge upon the Commissioners that Congress be asked to designate some piece of property belonging to the District of Columbia or to the United States, and facing upon the Potomac at some point between the Arsenal ground and the Long Bridge, where a suitable wharf with every facility for the handling of the articles to be received and every sanitary convenience may be had. It is assured that for an expenditure of, say, \$20,000, a revenue of from \$3,000 to \$5,000 annually might be obtained from wharfage. This is a matter which I hope will receive the earnest attention of the Commissioners.

JAMES CREEK CANAL.

I desire to ask if it is not possible to secure action looking to the abatement of that grievous nuisance known to the citizens of Washing-

ton as the James Creek Canal. This reeking open sewer, with its sewage floating back and forth with the tides, is a disgrace to the city which it has long enough endured. A continuation of the good work by arching it over from where it was left off to where it empties into the channel of the Eastern Branch of the Potomac would be the most important step which could be taken in the interests of the health and lives of the large population of South Washington. I believe the matter has been considered by the engineer department of the city, as well as other engineer officers of the Army. I hope that agitation of this subject will be maintained until the good work is accomplished.

VITAL STATISTICS.

Five thousand and forty deaths occurred in the District of Columbia during the fiscal year ending June 30, 1888. Of this number 1,456 were white males, 1,322 white females, 1,049 colored males, and 1,213 colored females.

The annual death-rate was 18.52 per thousand per annum for the whites, 30.16 for the colored, and 22.40 for the total population.

The population was estimated, January 1, 1888, at 225,000 souls: 150,000 white and 75,000 colored.

This estimate was derived from a consideration of the United States Census of 1880, the police censuses of 1885 and 1888, and the opinion of those who have given attention to the subject.

A comparison of the mortality of the last with the preceding year shows an increase of 113 for the white males, 181 for the white females, a decrease of 30 for the colored males, and an increase of 111 for the colored females.

Statements A and B show the comparisons of the last two years in detail. Statement C is in continuation of that of the last annual report, and gives the estimated population, the deaths and death-rates, by color, for the past thirteen years. After thus summarizing the returns an attempt has been made to enter into a more minute study of the data collected, and tables, maps, and charts have been prepared in general conformity with those of previous years, which exhibit the causes of death, arranged by classes, orders, and specific names; by color, sex, nativity, and social relation; by age, locality of death, and place of burial. Also a table (Table X) showing the daily and monthly mortality, from all causes, and the principal prevailing diseases, together with a daily and monthly summary of the meteorological observations taken at the office of the Chief Signal Officer of the Army during the year. Passing from the records relating to deaths those of births and marriages have been tabulated and are herewith submitted.

I.—ZYMOTIC DISEASES.

One thousand one hundred and twenty-three, or 22.28 per cent. of the total mortality for the year, fell in this class. The death-rate of the whites from the zymotic class of diseases was 4.26 per 1,000 per annum; of the colored population, 6.45. Last year there were 23 more males than females in this class; this year, however, there are 5 more females.

About 57 per cent. of the white deaths of this class and 68 per cent. of the colored deaths of this class were of children under five years of age. The causes of death in which the whites furnish a high rate as compared to the colored race are scarlet fever, diphtheria, croup, and

alcoholism; in which the colored are to be noticed for the same reason, typhoid fever, malarial fevers, diarrhoeal diseases, congenital syphilis, and inanition.

The following gives the principal diseases of this class and the number of deaths which they caused: Cholera infantum, 187 (91 white, 96 colored); typhoid fever, 168 (95 white, 73 colored); measles, 159 (97 white, 62 colored); inanition, 127 (58 white, 69 colored); diarrhoea, 94 (37 white, 57 colored); diphtheria, 69 (56 white, 13 colored); enterocolitis, 56; malarial fever, 38; syphilis, 29; croup, 27; dysentery, 25; alcoholism, 24; scarlet fever, 19; whooping cough, 17; erysipelas and typho-malarial fever, each, 14; remittent fever, 10; cholera morbus 9; intermittent fever, 8; septicæmia, 6; pyæmia and congestive fever, each, 5; carbuncle, 4; purpura hæmorrhagica, 3. Typhoid fever shows an increase of 42 deaths over last year; measles an increase of 145; whooping cough dropped from 46 to 17.

II.—CONSTITUTIONAL DISEASES.

Constitutional diseases caused 1,117 deaths, or 22.16 per cent. of the total mortality. The decedents were 270 white males, 307 white females, 204 colored males, and 336 colored females. The annual death-rate of the white population from this class of diseases was 3.846 per 1,000 per annum; of the colored, 7.200.

This class contains two orders—the diathetic and tubercular.

In the former we place rheumatism and cancers, and in the latter consumption. Rheumatism proved fatal in 53 cases, being an increase of 17 over last year.

Of these decedents 35 were white and 18 were colored; 22 were males and 31 females. Season did not appear to have much influence, as there were deaths for every month in the year, the highest being in April (11 deaths), and the lowest (2 deaths) in August and September.

There were 100 deaths from cancer. Of these 47, or nearly one-half, were white females.

In the tubercular order we have 927 deaths, 702 of which are ascribed to consumption, nearly 14 per cent. of the total mortality for the year. This, as compared with last year, shows a decrease of 34 deaths.

Upon classifying the 8,856 deaths from consumption which occurred during the twelve years ending December 31, 1887, the first thing that attracts attention is the preponderance of the colored females, of whom there were 2,641, or nearly 30 per cent. of the whole. Next in frequency comes the white males with 2,145 deaths; then the white females with 2,080 deaths; and lastly the colored males foot up 1,989.

When it is remembered that the white population is probably more than double that of the colored the significance of these figures will be understood.

To rudely illustrate the influence of season draw a nearly straight line from March, on a scale representing an average monthly number of 71.6, to August at 52, and intersect this with line from August to March, and you have a chart which very nearly gives the average monthly death-rate from consumption, February and October being the exceptions which would fall slightly below the line.

III.—LOCAL DISEASES.

This class is divided into orders corresponding to the different systems or organs of the body. Under the first order, that of the nervous system, there appeared 732 deaths, divided as follows as to race and

sex: 281 white males, 157 white females, 152 colored males, and 142 colored females.

Under specific causes of death in this order the principal were: Apoplexy, 138; convulsions, 118; insanity, 117; trismus nascentium, 67; meningitis, 61; paralysis, 48; congestion of brain, 46; sun-stroke, 29; inflammation of brain, 20; epilepsy, 18; hemiplegia, 15; and cerebro-spinal meningitis, 11.

Under the circulatory organs there are 292 deaths; of these, 273 may be referred to the heart.

Diseases of the respiratory organs caused 542 deaths. Under this order pneumonia leads, with 323 deaths; then follow bronchitis, 104; congestion of lungs, 68; asthma, 13; hemorrhage of lungs, 10; pleurisy, 7; and œdema of lungs, 5. Racial difference is apparent in the respiratory order, the colored death-rate being more than double that of the white. Season is also apparent. In January, February, and March the deaths nearly equal the other nine months. Age: Over 56 per cent. of the colored were under five years of age.

Diseases of the digestive organs were fatal in 332 cases. Here again the influence of season is to be seen, the three summer months giving over half of the total mortality of this order.

Diseases of urinary organs, 137 (one more than last year).

Diseases of generative organs, 24 (one male and twenty-three females); other diseases affecting special parts, 20.

Summing up the various orders of Class III we have a total of 2,079, or 41.25 per cent. of the total mortality; 1,201 white and 878 colored, or, by sex, 1,132 males and 947 females.

IV.—DEVELOPMENTAL DISEASES.

The number of deaths found in this class is 561 (270 white and 291 colored). The class contains 274 infants, 57 women, 220 persons who died from old age, and 10 from general debility.

Premature birth and congenital debility form the bulk of the first order, and the death-rate of colored infants from these causes is about three times as great as that of the whites. Of the 57 women who died from some complication of the parturient state 28 were white and 29 were colored.

Of the whites 27 were married, and of the colored 20 were married.

Two hundred and twenty deaths (or 4.36 of the total mortality) are registered under old age. Here the females have the advantage, as there are nearly twice as many as of the males.

V.—VIOLENCE.

There were 160 deaths attributed to violence. Of this number 120 were due to accidents, 22 to homicide, and 18 to suicides. Fatal accidents are more common to the male sex and to the colored race. Under the head of accidents we find that 16 persons were killed by the cars and the same number were drowned; 14 were burned or scalded to death. Mushrooms, aqua ammonia, illuminating gas, and coal gas each claimed a victim. The 22 homicides include 8 infanticides. The 18 suicides are divided as to the means used as follows: arsenic, 6; drowning and hanging, each 3; "Rough on Rats," incised wounds and pistol wounds, each 2.

BIRTHS.

The number of births reported this year was 3,670. Last year the number reported was 3,728. Those of this year show 1,048 were white

males, 987 were white females, 830 were colored males, and 805 were colored females, not including the still-born.

The returns do not present any abnormal features, except perhaps in the figures showing the numbers where physicians were in attendance and those who were attended by midwives. Of the 3,670 born only 1,546 had the assistance of science and skill, while in 2,160 cases midwives presided, or those who represent themselves as such. Attention is called to this fact, which derives importance because it is not only an evil in its bearings, but a growing one.

Many of these midwives are colored women, so ignorant as to barely know their own names and scarcely able to give their city address with accuracy. They depend almost invariably upon nostrums carried in flasks about their persons, and the composition or medicinal properties of which they know absolutely nothing. The result of this practice may be seen, to a great extent, in the large number of deaths of children under one year old and of the still-born, especially among the colored race.

INFANT MORTALITY.

Within the year 1,355 infants died who were under twelve months of age; this amounts to about 26 per cent. of all the deaths.

The number of children under five years of age who died during the year was 1,935, of whom 70 per cent. were under one year old. Tables giving statistics upon this subject for thirteen years past have been prepared with great care, which go to show that for that period the percentage of deaths of those under one year of age to those dying under five years of age ranges from 59 to 70 per cent.

During thirteen years the deaths of 23,843 children under five years old was reported, of whom 15,518 were under one year of age.

The deaths of all ages for the same time were 58,299, and the total births reported were 47,497, not including the still-born, which numbered 3,848, and which, added to the living, make an aggregate of 51,345.

Thus during this period about one-third of all who were born died within a twelve-month, and of all who died about one-fourth were infants not a year old. Although the white population is double that of the colored, only 6,525 of these were white, and 8,993 were colored children. This shows a death-rate of nearly 2.78 colored to 1 white. Of the causes that produce such results some are patent and others more remote and apparently obscure; but as they are shown by the figures, they call for the interested and sincere attention of scientists, as well as of practical philanthropists.

STILL-BIRTHS.

There were 458 still-births reported this year, compared with 406 last year. There were 3,670 living births. Thus the still-births were about 12.4 per cent. of those alive, while in the previous year this percentage was only 10.9 per cent. This increase represents a growing evil. Its importance and bearing should not be overlooked by the community. Of the still-births, 182 were white and 276 were colored; and of the whites, 156 were legitimate and 26 illegitimate; and of the colored, 155 were legitimate, while 121 were illegitimate. The normal proportions between the legitimates and the illegitimates among the whites is maintained, there being 6 of the former to 1 of the latter. The returns as to the colored race show a continued growth of illegitimate relations be-

tween the sexes, there being only 1.28 legitimate to 1 illegitimate. That is, the latter class equals three-fourths of the former and over 26 per cent. of still-births of every kind.

Examinations made by the office, as opportunity occurred have developed the fact that a large proportion of the mothers of these colored still-born are unmarried girls ranging from fourteen to eighteen or twenty years of age. In most cases they either can not or will not disclose the name of the father of the child, nor give any clue by which he can be located, and hence it follows that the dead infants must be cared for and buried at the public expense.

In a large number of these still-birth cases no cause is assigned. It will be seen that 71 were premature, while more than a hundred others assign reasons therefor which indicate an implied syphilitic origin either inherited by the mother or contracted by her, or suggest the use of drugs, either self-administered or furnished by the midwife.

The status of the colored race in the United States, and especially in the Southern portion thereof, assumes growing importance as a social problem as the years go by. The birth of 494 illegitimate colored children in one year, of whom 121 were born dead, by mothers mostly of school-girl age, unmarried and very often homeless, calls for more than a passing notice.

The colored population of the District of Columbia now numbers about 75,000. If philanthropy has any practical method with which to deal with a social evil such as this, a wide field for its application is here presented, especially if the social condition of the colored race in this District is an index of that of the country at large.

MARRIAGES.

There were 1,212 marriages certified to this office during the year, being 151 in excess of those of the past year. This indicates not only a population growing in numbers, but also an increasing attention on the part of those authorized to solemnize marriages to the requirements of the law as to making proper report to this office. Of the marriages 883 were between whites, 326 between colored, and 3 cases of miscegenation, wherein 2 white men married colored women, and 1 white woman was married to a colored man. First marriages were entered into in 1,070 cases; second marriages in 125 cases; third marriages in 5 cases, and the fourth marriage in only 1 case. Only 87 of the whole number were foreign born, 56 of these being German, 10 English, and 6 Irish. Of the brides, 239 white and 83 colored were under twenty years of age, and in no case was any of the parties represented to be over sixty years old.

The laws regulating marriages in the District of Columbia provide heavy penalties upon those who are authorized to perform marriage ceremonies for dereliction of duty in making returns to this office. The importance and need of rendering returns promptly arises in the growing want of the public, the courts, the Executive Departments of the Government, and the insurance companies make constant demands upon the health officer for copies of original papers in regard to marriage, as well as of birth and death.

The just settlement of vast property interests sometimes depends upon the evidence furnished from the files of this department. It is my pleasure to attest to the willing co operation on the part of the clergy of the District in carrying out the provisions of the laws relating to these matters. If any failure to make prompt returns has existed it

may be attributed to ignorance of the law, rather than through any willful neglect or refusal.

The growing value of the marriage records suggests the subject of marriage licenses, and I can only reiterate the suggestions made in reports through former years that the issue of such licenses should be vested in the registrar of vital statistics, and not in the clerk of the court. When we consider the importance of accurate and accessible records of the social condition of each individual in the community in respect of marriage, birth, and death, and the relation thereto to vast values of estate, the propriety of this change becomes apparent. The information needed by the public should be not only kept in a well arranged and easily found system, but should also be contained in records kept in one office and under single control.

DIVORCE.

A further advance in the right direction would be attained in carrying out to practical operation the suggestion made in my last annual report in reference to the value of a "divorce" record. Should the granting of marriage licenses be vested in this office in pursuance of the foregoing recommendation, and, in addition thereto, a law enacted rendering all legal divorces incomplete until certified by the court granting the divorce, and here properly registered, then would the records as to social condition be complete.

RECORDS.

These records are even now of untold value to the people. Beginning in 1874, the files contain the evidence of about 65,000 deaths, 50,000 births and of about 12,000 marriages, giving in each case the name, age, sex, color, social condition, and nativity, all indexed and numbered consecutively. This is for a period of only about fourteen years. How great will be their importance and use as time progresses no one can predict.

All of which is respectfully submitted.

SMITH TOWNSHEND, M. D.,
Health Officer.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDICES
TO THE
REPORT
OF THE
HEALTH OFFICER
OF THE
DISTRICT OF COLUMBIA.

Order 3.—Dietic.

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|-----|-------|------|------|----|----|----|----|----|----|----|----|----|---|---|----|---|---|
| Inanition | 127 | 2,520 | .386 | .920 | 38 | 20 | 30 | 39 | 58 | 69 | 68 | 59 | 7 | 4 | 3 | 6 | 5 | 3 |
| Purpura | 3 | .059 | .013 | .013 | 2 | 7 | 2 | 1 | 22 | 1 | 2 | 1 | 6 | | | 4 | 1 | |
| Alcoholism | 24 | .476 | .147 | .026 | 15 | | | | | | 17 | 7 | | | | | | |
| Total dietic diseases | 154 | 3,055 | .546 | .959 | 55 | 27 | 32 | 40 | 82 | 72 | 87 | 67 | 13 | 4 | 3 | 10 | 1 | 3 |

Order 4.—Parasitic.

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------|--------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| Thrush | 2 | .040 | .006 | .013 | | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | |
| Worms | 1 | .019 | | .013 | | | 1 | | | 1 | 1 | | | | | | | |
| Total parasitic diseases | 3 | .059 | .006 | .026 | | 1 | 2 | | 1 | 2 | 2 | 1 | | | | | | |
| Total zymotic diseases | 1,123 | 22,280 | 4,260 | 6,451 | 333 | 306 | 226 | 258 | 639 | 484 | 559 | 564 | 58 | 47 | 40 | 42 | 34 | 32 |

CLASS II.—CONSTITUTIONAL DISEASES.

Order 1.—Diathetic.

| | | | | | | | | | | | | | | | | | | |
|---------------------------|----|-------|------|------|----|----|---|----|----|----|----|----|---|---|---|---|---|---|
| Gout..... | 2 | .040 | .013 | | 2 | 18 | 5 | 13 | 2 | 18 | 2 | 31 | 4 | 1 | | | | |
| Rheumatism..... | 53 | 1,053 | .236 | .240 | 17 | 5 | 3 | 8 | 35 | 18 | 22 | 13 | | | | | 2 | |
| Dropsy | 19 | .379 | .054 | .147 | 3 | | | | 8 | 11 | 6 | 13 | | | 2 | 1 | | |
| Hæmatophilia | 1 | .019 | | .013 | | | 1 | | | 1 | 1 | | | | | | 1 | |
| Chlorosis | 1 | .019 | .006 | | | 1 | | | 1 | | | 1 | | | | | | |
| Leukæmia | 1 | .019 | .006 | | | 1 | | | | | | 1 | | | | | | |
| Anæmia | 6 | .120 | .020 | .040 | 2 | 1 | 1 | 2 | 1 | 3 | 3 | 1 | | 1 | | | | 1 |
| Lymphadenosis | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | | | | | | |
| Goitre | 1 | .019 | .006 | | | 1 | | | 1 | | | 1 | | | | | | |
| Exophthalmic goitre | 1 | .019 | .006 | | | 1 | | | 1 | | | 1 | | | | | | |
| Elephantiasis | 1 | .019 | .006 | .013 | | 1 | | 1 | | 1 | | 1 | | | | | | |
| Cancer of abdomen | 1 | .019 | .006 | | | 1 | | | 1 | | | 1 | | | | | | |
| axilla | 1 | .019 | .006 | | | | | | 1 | | | 1 | | | | | | |
| bladder | 1 | .019 | .006 | | | | | | 1 | | | 1 | | | | | | |
| bowels | 2 | .040 | .013 | | 1 | 1 | | | 1 | | 1 | 1 | | 1 | | | | |
| buttocks | 2 | .040 | .006 | .013 | 1 | | | 1 | 2 | | 1 | 1 | | | | | | |
| breast | 1 | .019 | .006 | .013 | | | | 1 | 1 | | 1 | 1 | | | | | | |
| colon | 12 | .240 | .060 | .040 | | 9 | | 3 | 9 | 3 | | 12 | | | | | | |
| duodenum | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | | | | | | |
| face | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | | | | | | |
| heart | 6 | .120 | .040 | | 6 | | | | 6 | | 6 | | 1 | | | 1 | | |
| kidney | 1 | .019 | .006 | | | 1 | | | 1 | | | 1 | | | | | | |
| lip | 1 | .019 | .006 | .013 | 1 | | | 1 | 1 | | 1 | | | | | | | |
| liver | 1 | .019 | .006 | | | | | | 1 | | | 1 | | | | | | |
| mouth | 11 | .220 | .074 | | 4 | 7 | | | 11 | 1 | 4 | 7 | 1 | 1 | | 1 | | |
| neck | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | 1 | | | | | |
| pancreas | 1 | .019 | .006 | | | 1 | | | 1 | | 1 | | | | | | | |
| penis | 3 | .060 | .006 | .027 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | | | 1 | | | |
| pharynx | 2 | .040 | .013 | | 1 | | | | 2 | | 2 | | | | | | | |
| pylorus | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | | | | | | |
| stomach | 2 | .040 | .006 | .013 | 2 | 1 | 1 | | 1 | | 1 | | | | | | | |
| throat | 13 | .260 | .047 | .080 | | 5 | 1 | 5 | 7 | 6 | 3 | 10 | 1 | | | | | |
| tongue | 2 | .040 | .013 | | 2 | | | | 2 | | 2 | | | | | | | |
| uterus | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | | | | | | |
| ..... | 25 | .499 | .114 | .108 | | 17 | | 8 | 17 | 8 | | 25 | | | | 1 | | 1 |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | 1887. | | | | | | | | | | | | 1888. | | | | | | | | | | | | | |
|-------------------------------|------------|----|----|----------------------|-----|----|----------|----|----|-----------|----|----|-----------|----|----|-----------------------|----|----|----------|----|----|----|----|----|---|----|
| | September. | | | Total first quarter. | | | October. | | | November. | | | December. | | | Total second quarter. | | | January. | | | | | | | |
| | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | | | | | |
| | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | | | | | |
| CLASS I.—ZYMOTIC DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Miasmatic.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measles..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scarlet fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diphtheria..... | 8 | 2 | 1 | 13 | 4 | 3 | 5 | 3 | 1 | 3 | 3 | 1 | 1 | 5 | 2 | 1 | 6 | 5 | 5 | 3 | 7 | 6 | | | | |
| Croup..... | 2 | 1 | | 2 | 1 | | | 4 | | 2 | 2 | 1 | | 2 | 1 | | 2 | 2 | 2 | 1 | 1 | 1 | | | | |
| Whooping-cough..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tonsillitis..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erysipelas..... | 2 | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Pyæmia..... | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| Septicæmia..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbuncle..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Typhoid fever..... | 5 | 9 | 4 | 19 | 24 | 14 | 15 | 5 | 8 | 3 | 4 | 7 | 2 | 4 | 5 | 1 | 1 | 5 | 3 | 1 | 1 | 2 | | | | |
| Typho-malarial fever..... | 1 | 1 | | 3 | 1 | 1 | 2 | | 1 | | | | | | | | | | | | | | | | | |
| Congestive fever..... | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intermittent fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remittent fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malarial fever..... | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Continued fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eruptive fever..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cholera morbus..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cholera infantum..... | 3 | 6 | 3 | 27 | 31 | 28 | 34 | | 1 | 1 | 2 | | | | | | | | | | | | | | | |
| Dysentery..... | 3 | 2 | | 1 | 8 | 2 | 3 | 1 | 1 | | | | | | | | | | | | | | | | | |
| Diarrhœa..... | 2 | 2 | | 8 | 8 | 15 | 18 | 2 | 2 | 3 | 1 | | | | | | | | | | | | | | | |
| Enterocolitis..... | 2 | 3 | | 2 | 12 | 13 | 4 | 7 | | | | | | | | | | | | | | | | | | |
| Total miasmatic diseases..... | 26 | 29 | 16 | 102 | 102 | 75 | 89 | 16 | 23 | 11 | 13 | 14 | 10 | 6 | 10 | 18 | 15 | 13 | 14 | 48 | 48 | 37 | 18 | 12 | 9 | 11 |
| Order 2.— <i>Enthetic.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Syphilis, congenital..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| secondary..... | 1 | 1 | 1 | 1 | 2 | 2 | 2 | | | 1 | | 1 | | | 3 | | | 1 | 2 | 1 | | 2 | 5 | | | 1 |
| tertiary..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| variety not stated..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total enthetic diseases..... | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | 1 | 1 | 4 | 2 | 2 | | | 1 | | 1 | | | 1 | 2 | 1 | | | 2 | 1 | | 2 | 5 | | 1 |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | 1888. | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------|----|----|----------|----|----|----------------------|----|----|----------|----|----|----------|----|----|----------|----|----|-----------------------|----|----|----|----|----|----|
| | February. | | | March. | | | Total third quarter. | | | April. | | | May. | | | June. | | | Total fourth quarter. | | | | | | |
| | W. C. M. | | | W. C. M. | | | W. C. M. | | | W. C. M. | | | W. C. M. | | | W. C. M. | | | W. C. M. | | | | | | |
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | |
| CLASS I.—ZYMOTIC DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Miasmatic</i> . | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measles..... | 10 | 12 | 5 | 8 | 21 | 18 | 6 | 4 | 36 | 18 | 18 | 3 | 6 | 2 | 2 | 4 | 6 | 3 | 3 | 3 | 1 | 1 | 9 | 15 | 6 |
| Scarlet fever..... | | 3 | | | 5 | | | | 6 | 3 | 1 | 1 | 1 | | 1 | | | | | | | | 1 | 1 | |
| Diphtheria..... | 1 | 1 | | | 1 | | | | 3 | 3 | 1 | 4 | 1 | | | | 1 | 2 | 2 | 2 | 3 | | 6 | 4 | 5 |
| Croup..... | | 3 | 1 | | | 1 | | | 2 | 5 | 1 | 1 | 1 | | | | 2 | | 1 | | | 1 | 1 | 4 | |
| Whooping-cough..... | | | | 1 | | | | | | 1 | 1 | | 1 | | 3 | 1 | | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 4 |
| Tonsillitis..... | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Erysipelas..... | | | | | | | | 1 | | 1 | 2 | 1 | 3 | 1 | | | | | | | | 1 | 3 | 1 | |
| Pyæmia..... | | | | | | | | | 1 | | | | | | | | 1 | | | | | 1 | 1 | | |
| Septicæmia..... | 2 | | | | | | | | 2 | | | | | | | | 1 | 1 | | 1 | | 2 | 2 | | |
| Carbuncle..... | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Typhoid fever..... | 1 | 5 | 1 | | 2 | | 3 | 3 | 8 | 6 | 4 | 5 | 1 | 4 | 2 | 1 | 1 | 1 | 4 | 2 | 2 | 2 | 6 | 3 | 7 |
| Typho-malarial fever..... | | | 1 | | | | | | | 1 | 1 | | | | | | | 1 | | | 1 | 1 | 1 | 1 | 1 |
| Congestive fever..... | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Intermittent fever..... | | | | | | | | | | | | | 1 | | | | 1 | | | | 1 | | 2 | 1 | |
| Remittent fever..... | | | | 1 | | | | | | | | 1 | | | | | 1 | 1 | | | | | 1 | 1 | |
| Malarial fever..... | | | | 1 | | | 1 | | | 1 | 2 | 1 | | | 4 | 1 | 1 | | 1 | | | 1 | 2 | 1 | 4 |
| Continued fever..... | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eruptive fever..... | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Cholera morbus..... | | | | | | | | | | | | | | | | | | | | | | | | | |
| infantum..... | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Dysentery..... | | | | 1 | | | | | 1 | 1 | | 1 | 1 | 1 | | | | | | | | | 1 | 1 | |
| Diarrhœa..... | 1 | 1 | 1 | | 1 | | 2 | | 4 | 1 | 3 | | 1 | 2 | 1 | | | 2 | 1 | 2 | 3 | 8 | 2 | 3 | 5 |
| Enterocolitis..... | | | | | | 2 | | | | 2 | | | 1 | | | | | 1 | 1 | 3 | 4 | 7 | 1 | 4 | 7 |
| Total miasmatic diseases | 17 | 26 | 9 | 12 | 30 | 21 | 13 | 9 | 65 | 59 | 31 | 32 | 14 | 16 | 8 | 13 | 12 | 14 | 7 | 9 | 30 | 34 | 33 | 29 | 56 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 2.— <i>Enthetic</i> . | | | | | | | | | | | | | | | | | | | | | | | | | |
| Syphilis, congenital | | | | | 1 | | | 2 | 1 | 1 | 2 | | | | | | | 1 | | | | | 1 | 1 | |
| secondary | | | | | | | | | | | | | | | | | | | | | | | | | |
| tertiary | 1 | | | | 2 | | | | 3 | | | | | | | | 1 | | | | | | 1 | | |
| variety not stated | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Total enthetic diseases | 1 | | | | 3 | | | 3 | 1 | 4 | | | | | | | 1 | 1 | | | | | 1 | 1 | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | | | | | Total. | Per cent. of each cause to total mortality under 5 years of age. | | | | |
|-------------------------------|------------------|-----|-----|-----|---------------|-----|-----|-----|---------------|-----|-----|-----|---------------|-----|-----|-----|--------|--|---------------|--------|-------|----|
| | Under 1 year. | | | | 1 to 2 years. | | | | 2 to 3 years. | | | | 3 to 4 years. | | | | | | 4 to 5 years. | | | |
| | W. | | C. | | W. | | C. | | W. | | C. | | W. | | C. | | | | W. | | C. | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | | M. | F. | M. | F. |
| CLASS I.—ZYMOTIC DISEASES. | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Miasmatic.</i> | | | | | | | | | | | | | | | | | | | | | | |
| Measles..... | 9 | 5 | 8 | 8 | 14 | 15 | 8 | 8 | 8 | 10 | 7 | 5 | 6 | 7 | 3 | 2 | 39 | 26 | 130 | 6.715 | | |
| Scarlet fever..... | 1 | 1 | ... | ... | 1 | ... | ... | 2 | 1 | ... | ... | ... | 3 | 1 | ... | ... | 4 | 3 | 7 | .362 | | |
| Diphtheria..... | 3 | ... | ... | ... | 4 | 1 | ... | 1 | 4 | ... | ... | ... | 3 | 4 | 1 | 1 | 18 | 6 | 28 | 1.448 | | |
| Croup..... | ... | 2 | 1 | 1 | 1 | 3 | ... | 3 | 4 | ... | ... | ... | 2 | 1 | 2 | 1 | 7 | 12 | 23 | 1.187 | | |
| Whooping-cough..... | 3 | 4 | 1 | 2 | 1 | 1 | 1 | 1 | ... | ... | ... | 1 | ... | ... | 2 | ... | 4 | 5 | 17 | .878 | | |
| Tonsillitis..... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | .051 | | |
| Erysipelas..... | 2 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 1 | 3 | .055 | | |
| Pyæmia..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 2 | .103 | |
| Septicæmia..... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | 2 | .103 | | |
| Carbuncle..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Typhoid fever..... | ... | ... | ... | ... | 2 | ... | 2 | 2 | ... | 2 | 1 | ... | ... | ... | ... | ... | 2 | 2 | 9 | .465 | | |
| Typho-malarial fever..... | ... | ... | ... | ... | 1 | ... | ... | 1 | ... | ... | ... | ... | 1 | ... | ... | ... | 3 | ... | 3 | .155 | | |
| Congestive fever..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | .051 | |
| Intermittent fever..... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | .051 | | |
| Remittent fever..... | 1 | 1 | ... | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | 5 | .258 | | |
| Malarial fever..... | 2 | 1 | ... | 1 | ... | ... | 3 | ... | 1 | ... | ... | 1 | ... | ... | 1 | ... | 2 | 2 | 10 | .517 | | |
| Continued fever..... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | .051 | | |
| Eruptive fever..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | .051 | | |
| Cholera morbus..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Cholera infantum..... | 38 | 41 | 37 | 52 | 4 | 5 | 3 | 2 | 1 | 1 | 1 | 1 | ... | ... | ... | ... | 43 | 47 | 186 | 9.610 | | |
| Dysentery..... | 1 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 3 | 4 | .206 | | |
| Diarrhœa..... | 9 | 7 | 20 | 17 | 2 | 1 | 2 | 2 | ... | ... | ... | 2 | ... | 1 | ... | ... | 11 | 9 | 63 | 3.255 | | |
| Enterocolitis..... | 13 | 14 | 10 | 8 | 1 | 3 | ... | 1 | ... | ... | ... | ... | 1 | ... | ... | ... | 15 | 17 | 51 | 2.635 | | |
| Total miasmatic diseases..... | 83 | 83 | 79 | 90 | 31 | 29 | 20 | 20 | 19 | 19 | 9 | 10 | 13 | 14 | 2 | 8 | 153 | 151 | 549 | 28.358 | | |
| Order 2.— <i>Enthetic.</i> | | | | | | | | | | | | | | | | | | | | | | |
| Syphilis, congenital..... | 1 | 3 | 4 | 9 | 1 | ... | 2 | ... | ... | ... | 1 | ... | ... | ... | ... | ... | 2 | 3 | 7 | 21 | 1.087 | |
| secondary..... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | .051 | |
| tertiary..... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 | .051 | |
| variety not stated..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Total enthetic diseases..... | 2 | 4 | 4 | 9 | 1 | ... | 2 | ... | ... | ... | 1 | ... | ... | ... | ... | ... | 3 | 4 | 7 | 23 | 1.189 | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | SOCIAL RELATIONS. | | | | | | NATIVITY. | | | | | | | | | | | |
|-----------------------------------|-------------------|----|----|----------|----|----|-----------------------|-----|----|-------------------------------|----|----|----------|----|----|----------|----|----|
| | Widow or widower. | | | Unknown. | | | District of Columbia. | | | Other parts of United States. | | | Foreign. | | | Unknown. | | |
| | | | | | | | | | | | | | | | | | | |
| | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. |
| CLASS I.—ZYMOTIC DISEASES. | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Miasmatic.</i> | | | | | | | | | | | | | | | | | | |
| Measles..... | | | | | | | | | | | | | | | | | | |
| Scarlet fever..... | | | | | | | 34 | 37 | | 12 | 13 | | | | | | | |
| Diphtheria..... | | | | | | | 26 | 15 | | 8 | 7 | | | | | | | |
| Croup..... | | | | | | | 5 | 14 | | 3 | 2 | | | | | | | |
| Whooping-cough..... | | | | | | | 4 | 4 | | 2 | 1 | | | | | | | |
| Tonsillitis..... | | | | | | | | 1 | | | | | | | | | | |
| Erysipelas..... | 1 | | | | | | | 4 | | | | | | | | | | |
| Pyæmia..... | | | | | | | | 1 | | | | | | | | | | |
| Septicæmia..... | 1 | | | | | | 4 | | | | | | | | | | | |
| Carbuncle..... | 1 | | | | | | | | | | | | | | | | | |
| Typhoid fever..... | 1 | 3 | 1 | | | | 19 | 26 | | 19 | 15 | | | | | | | |
| Typho-malarial fever..... | | | | | | | 4 | | | 1 | 1 | | | | | | | |
| Congestive fever..... | | | | | | | 1 | 2 | | | | | | | | | | |
| Intermittent fever..... | 1 | | | | | | | 1 | | 2 | | | | | | | | |
| Remittent fever..... | | | | | | | 2 | 1 | | | | | | | | | | |
| Malarial fever..... | 1 | 1 | | | | | 4 | 4 | | | | | | | | | | |
| Continued fever..... | 6 | | | | | | | | | | | | | | | | | |
| Eruptive fever..... | | | | | | | 1 | | | | | | | | | | | |
| Cholera morbus..... | 1 | 1 | | | | | | | | | | | | | | | | |
| infantum..... | | | | | | | | | | | | | | | | | | |
| Dysentery..... | 2 | | | | | | 40 | 40 | | 3 | 7 | | | | | | | |
| Diarrhœa..... | 1 | 5 | 4 | | | | 11 | 11 | | 6 | 1 | | | | | | | |
| Enterocolitis..... | 1 | | | | | | 15 | 15 | | 10 | 3 | | | | | | | |
| Total miasmatic diseases..... | 8 | 20 | 9 | 12 | | | 185 | 184 | | 130 | 69 | | | | | | | |
| Order 2.— <i>Enthetic.</i> | | | | | | | | | | | | | | | | | | |
| Syphilis, congenital..... | | | | | | | 2 | 3 | | | | | | | | | | |
| secondary..... | | | | | | | | 1 | | | | | | | | | | |
| tertiary..... | | | | | | | 1 | | | | | | | | | | | |
| variety not stated..... | | | | | | | | | | | | | | | | | | |
| Total enthetic diseases..... | | | | | | | 3 | 4 | | 7 | 1 | | | | | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | Total deaths from each cause. | Per cent. of each cause to total mor- tality. | DEATH-RATE. | | RECAPITULATION. | | | | | | | | | | 1887. | | | | | | | | | | | |
|--|-------------------------------|---|-------------------------------|-------|-------------------------|-----|-----|-----|-----------------|-----|---------------|-----|-------|----|-------|----|---------|----|----|--|--|----|--|--|--|--|
| | | | Deaths per 1,000 inhabitants. | | Total by color and sex. | | | | Total by color. | | Total by sex. | | July. | | | | August. | | | | | | | | | |
| | | | W. | C. | W. | | C. | | W. | C. | W. | F. | M. | F. | W. | C. | W. | C. | | | | | | | | |
| | | | | | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLASS II.—CONSTITUTIONAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Diathetic</i> —Continued. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cancer of rectum | 5 | .099 | .020 | .027 | 2 | 1 | 1 | 1 | 3 | 2 | | | | | | | | | | | | | | | | |
| not located | 3 | .060 | .013 | .013 | | 2 | | | 2 | 1 | | | | | | | | | | | | | | | | |
| Malignant fibro-cystic tumor | 1 | .019 | .006 | | | 1 | | | 1 | | | | | | | | | | | | | | | | | |
| Osteo-sarcoma of vertebrae | 1 | .019 | .006 | | | 1 | | | 1 | | | | | | | | | | | | | | | | | |
| Osteo-sarcoma | 1 | .019 | .006 | | 1 | | | | 1 | | | | | | | | | | | | | | | | | |
| Total diathetic diseases | 190 | 3.768 | .866 | .800 | 53 | 77 | 14 | 46 | 130 | 60 | 67 | 123 | 8 | 5 | 3 | 2 | 3 | 3 | | | | | | | | |
| Order 2.— <i>Tubercular</i> . | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tubercular peritonitis | 1 | .019 | | .013 | | | | 1 | | 1 | | | | | | | | | | | | | | | | |
| Scrofulous abscess | 2 | .040 | | .027 | | | 2 | 2 | | 2 | | | | | | | | | | | | | | | | |
| Psoas abscess | 3 | .060 | .006 | .027 | | 1 | | | 1 | 2 | | | | | | | | | | | | | | | | |
| Scrofula | 23 | .456 | .013 | .280 | 1 | 1 | 10 | 11 | 22 | 21 | 11 | 12 | | 1 | 1 | 1 | 2 | | | | | 2 | | | | |
| Hydrocephalus | 12 | .240 | .047 | .066 | 5 | 2 | 3 | 2 | 7 | 5 | 8 | 4 | | | | | | | | | | | | | | |
| Tuberculosis | 43 | .853 | .094 | .387 | 11 | 3 | 12 | 17 | 14 | 29 | 23 | 20 | 2 | 1 | 1 | 1 | 2 | | | | | 1 | | | | |
| Marasmus | 90 | 1.785 | .347 | .506 | 25 | 27 | 19 | 19 | 52 | 38 | 44 | 46 | 2 | 6 | 1 | 3 | 1 | 3 | | | | 1 | | | | |
| Tubercular meningitis | 34 | .674 | .114 | .227 | 9 | 8 | 9 | 8 | 17 | 17 | 18 | 16 | | | 3 | 1 | | | | | | 1 | | | | |
| Tabes mesenterica | 8 | .160 | .006 | .094 | 1 | | 3 | 4 | 1 | 7 | 4 | 4 | | | 1 | | | | | | | | | | | |
| Rachitis | 5 | .099 | | .067 | | | 2 | 3 | | 5 | 2 | 3 | | | | | | | | | | | | | | |
| Morbus coxae | 1 | .019 | | .013 | | | 1 | | | 1 | 1 | | | | | | | | | | | | | | | |
| Pott's disease | 3 | .060 | .020 | | 1 | 2 | | | 3 | | 1 | | | | | | | | | | | | | | | |
| Consumption | 702 | 13.927 | 2.333 | 4.693 | 164 | 186 | 129 | 223 | 350 | 352 | 293 | 409 | 9 | 13 | 12 | 21 | 8 | 14 | 7 | | | 14 | | | | |
| Total tubercular diseases | 927 | 18.392 | 2.980 | 6.400 | 217 | 230 | 190 | 290 | 447 | 480 | 407 | 520 | 13 | 21 | 18 | 24 | 13 | 16 | 12 | | | 20 | | | | |
| Total constitutional diseases | 1,117 | 22.160 | 3.846 | 7.200 | 270 | 307 | 204 | 336 | 577 | 540 | 474 | 643 | 21 | 26 | 21 | 24 | 15 | 19 | 15 | | | 22 | | | | |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Nervous system</i> . | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meningitis, cerebral | 61 | 1.210 | .240 | .334 | 20 | 16 | 13 | 12 | 36 | 25 | 33 | 28 | 3 | | 4 | 2 | | 4 | 1 | | | 1 | | | | |
| spinal | 5 | .100 | .020 | .027 | 2 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 1 | | | | | | | | | | | | | |
| cerebro-spinal | 11 | .218 | .033 | .080 | 3 | 2 | 4 | 2 | 5 | 6 | 7 | 4 | | | | 1 | | | | | | 1 | | | | |
| Apoplexy | 138 | 2.738 | .643 | .560 | 66 | 30 | 19 | 23 | 96 | 42 | 85 | 53 | 9 | 2 | 2 | 3 | 4 | 3 | 2 | | | 3 | | | | |

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|----------------------------------|-----|--------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|---|----|
| Softening of brain | 10 | .199 | .060 | .013 | 4 | 5 | 1 | 142 | 438 | 294 | 433 | 299 | 54 | 13 | 19 | 11 | 20 | 14 | 7 | 18 |
| Neuralgia | 1 | .09 | .006 | | 1 | | | | | | | | | | | | | | | |
| Insanity | 117 | 2.321 | .629 | .321 | 77 | 16 | 13 | 11 | 93 | 24 | 90 | 27 | 9 | 3 | | | 6 | | | 1 |
| Brain trouble | 2 | .040 | .013 | | 2 | | | | 2 | | 2 | | | | | | | | | |
| Anæmia of brain | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | | | | | | | | |
| Hæmatoma of brain | 1 | .019 | | .013 | | | | 1 | | | | 1 | | | | | | | | |
| Tumor of brain | 2 | .040 | .006 | .013 | | | | | 1 | | 1 | 1 | | | | | | | | |
| Sun-stroke | 29 | .575 | .154 | .080 | 19 | 4 | 6 | | 23 | 6 | 25 | 4 | 17 | 2 | 6 | | 1 | | | |
| Myelitis | 2 | .040 | .013 | | 1 | 1 | | | 2 | | 1 | 1 | | | | | | | | |
| Sclerosis of spinal cord | 3 | .060 | .020 | | 1 | 2 | | | 3 | | 1 | 2 | | | | | | | | |
| Abscess of brain | 5 | .100 | .013 | .040 | 2 | | | | 2 | | 3 | 2 | | | | | | | | |
| Epilepsy | 18 | .359 | .080 | .080 | 6 | 6 | 4 | 2 | 12 | 6 | 10 | 8 | 1 | | | | | | | 1 |
| Hemiplegia | 15 | .300 | .047 | .106 | 3 | 4 | 5 | 3 | 7 | | 8 | 7 | 2 | | | | | 2 | | |
| Paralysis | 48 | .953 | .180 | .280 | 13 | 14 | 12 | 9 | 27 | 21 | 25 | 23 | 1 | 1 | 2 | | 2 | 1 | | 2 |
| Locomotor ataxia | 4 | .080 | .026 | | 1 | 3 | | | 4 | | 1 | 3 | | | | | | | | |
| Inflammation of brain | 20 | .400 | .107 | .053 | 6 | 10 | 2 | 2 | 16 | 4 | 8 | 12 | | | | | 2 | 1 | | |
| Congestion of brain | 46 | .913 | .174 | .268 | 14 | 12 | 14 | 6 | 26 | 20 | 28 | 18 | | | 1 | 2 | 2 | 1 | | |
| Tetanus (idiopathic) | 2 | .040 | .006 | .013 | 1 | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Trismus nascentium | 67 | 1.320 | .133 | .626 | 13 | 7 | 16 | 21 | 20 | 47 | 39 | 26 | | 2 | 1 | 3 | 2 | 1 | 3 | 4 |
| Convulsions | 118 | 2.341 | .295 | .987 | 24 | 20 | 30 | 44 | 44 | 74 | 54 | 64 | 5 | 1 | 3 | 2 | | | | 5 |
| Laryngismus stridulus | 1 | .020 | .006 | | | 1 | | | 1 | | | 1 | | | | | | | | |
| Neurasthenia | 3 | .060 | .006 | .026 | 1 | | | 2 | 1 | 2 | 1 | 2 | | | | | | 1 | | 1 |
| Embolism of cerebral artery | 1 | .020 | .006 | | | 1 | | | 1 | | | 1 | | | | | | | | |
| Nervous shock | 1 | .020 | .006 | | | 1 | | | 1 | | | 1 | | | | | | | | |
| Total diseases of nervous system | 732 | 14.524 | 2.919 | 3.920 | 281 | 157 | 152 | 142 | 438 | 294 | 433 | 299 | 54 | 13 | 19 | 11 | 20 | 14 | 7 | 18 |

Order 2.—Circulatory organs.

| | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----|-------|-------|-------|----|----|----|----|-----|-----|-----|-----|---|---|---|---|---|---|---|---|
| Fatty degeneration of heart | 12 | .238 | .668 | .026 | 8 | 2 | 1 | | 10 | 2 | 9 | 3 | 1 | | | | | | 1 | |
| Dilatation of heart | 14 | .278 | .054 | .070 | 3 | 5 | 2 | 4 | 8 | 6 | 5 | 9 | 1 | | | | | | | 1 |
| Valvular disease of heart | 137 | 2.717 | .509 | .829 | 39 | 36 | 31 | 31 | 75 | 62 | 70 | 67 | 3 | 2 | 3 | 1 | 4 | | 4 | |
| Hypertrophy of heart | 16 | .319 | .040 | .134 | 3 | 3 | 7 | 3 | 6 | 10 | 10 | 6 | | 1 | | | | | | |
| Pericarditis | 6 | .120 | .013 | .053 | 1 | 1 | 1 | 3 | 2 | 4 | 2 | 4 | | | | 1 | | | | |
| Endocarditis | 5 | .100 | .026 | .013 | 2 | 2 | 1 | | 4 | 1 | 3 | 2 | | | | | | | | |
| Rupture of heart | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | | | | | | | | |
| Heart disease (undefined) | 82 | 1.626 | .288 | .520 | 24 | 19 | 15 | 24 | 43 | 39 | 39 | 43 | 1 | | | 3 | 3 | 2 | 1 | 2 |
| Angina pectoris | 5 | .100 | .020 | .026 | 1 | 2 | | 2 | 3 | 2 | 1 | 4 | | | | | | | | |
| Phlebitis | 1 | .020 | .006 | | 1 | | | | 1 | | 1 | | | | | | | | | |
| Aneurism of thoracic aörrta | 1 | .070 | .006 | .013 | | | 1 | | | 1 | 1 | | | | | | | | | |
| aörrta innominate | 7 | .138 | .026 | .010 | 4 | | 2 | 1 | 4 | 3 | 6 | 1 | | | | | | | | |
| subclavian and innominate | 2 | .040 | .013 | | | 2 | | | 2 | | | 2 | | | | | | | | |
| aneurism | 1 | .019 | .006 | .013 | | | 1 | | | 1 | 1 | 1 | | | | | | | | |
| Total diseases of circulatory organs | 292 | 5.794 | 1.066 | 1.760 | 88 | 72 | 62 | 70 | 160 | 132 | 150 | 142 | 7 | 3 | 3 | 8 | 8 | 3 | 6 | 3 |

Order 3.—Respiratory organs.

| | | | | | | | | | | | | | | | | | | | | |
|-----------------|----|------|------|------|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|
| Asthma | 13 | .260 | .040 | .094 | 2 | 4 | 4 | 3 | 6 | 7 | 6 | 7 | | | | | | | | |
| Hydr. thorax | 1 | .019 | | .013 | | | | 1 | | 1 | | 1 | | | | | | | | |
| Tumor of larynx | 1 | .019 | | .013 | | | | 1 | | 1 | | 1 | | | | | | | | |
| Empyæmia | 1 | .019 | .006 | | 1 | | | | 1 | | 1 | | | | | | | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | 1887. | | | | | | | | | | | | 1888. | | | | | | | | | |
|--|------------|----|----|----------------------|----|----|----------|----|----|-----------|----|----|-----------|----|----|-----------------------|----|----|----------|----|----|---|
| | September. | | | Total first quarter. | | | October. | | | November. | | | December. | | | Total second quarter. | | | January. | | | |
| | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | |
| | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | |
| CLASS II.—CONSTITUTIONAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Diathetic</i> —Continued. | | | | | | | | | | | | | | | | | | | | | | |
| Cancer of rectum | | | | | | | | | | | | | | | | | | | | | | |
| not located | | | | | | | | | | | | | | | | | | | | | | |
| Malignant fibro-cystic tumor | | | | | | | | | | | | | | | | | | | | | | |
| Osteo-sarcoma of vertebrae | | | | | | | | | | | | | | | | | | | | | | |
| Osteo-sarcoma | | | | | | | | | | | | | | | | | | | | | | |
| Total diathetic diseases | 2 | 5 | | 2 | 12 | 6 | 4 | 6 | 8 | | 1 | 4 | 5 | 5 | 6 | 11 | 3 | 16 | 24 | | 9 | 1 |
| Order 2.— <i>Tubercular</i> . | | | | | | | | | | | | | | | | | | | | | | |
| Tubercular peritonitis | | | | | | | | | | | | | | | | | | | | | | |
| Scrofulous abscess | | | | | | | | | | | | | | | | | | | | | | |
| Psoas abscess | | | | | | | | | | | | | | | | | | | | | | |
| Scrofula | 1 | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | |
| Tuberculosis | | | | | | | | | | | | | | | | | | | | | | |
| Marasmus | 2 | | | | | | | | | | | | | | | | | | | | | |
| Tubercular meningitis | | | | | | | | | | | | | | | | | | | | | | |
| Tabes mesenterica | | | | | | | | | | | | | | | | | | | | | | |
| Rachitis | | | | | | | | | | | | | | | | | | | | | | |
| Morbus coxae | | | | | | | | | | | | | | | | | | | | | | |
| Pott's disease | | | | | | | | | | | | | | | | | | | | | | |
| Consumption | 14 | 20 | 12 | 22 | 31 | 47 | 31 | 57 | 18 | 14 | 15 | 9 | 13 | 19 | 16 | 16 | 20 | 12 | 5 | 16 | 51 | |
| Total tubercular diseases | 16 | 25 | 18 | 34 | 42 | 62 | 48 | 78 | 26 | 16 | 19 | 15 | 14 | 20 | 22 | 21 | 26 | 15 | 9 | 18 | 66 | |
| Total constitutional diseases | 18 | 30 | 18 | 36 | 54 | 55 | 54 | 82 | 32 | 24 | 19 | 16 | 18 | 25 | 22 | 20 | 32 | 26 | 9 | 21 | 82 | |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Nervous system</i> . | | | | | | | | | | | | | | | | | | | | | | |
| Meningitis, cerebral | 1 | 2 | | | | | | | | | | | | | | | | | | | | |
| spinal | | | | | | | | | | | | | | | | | | | | | | |
| cerebro-spinal | | | | | | | | | | | | | | | | | | | | | | |
| Apoplexy | 5 | 1 | 3 | 1 | 18 | 6 | 7 | 7 | 4 | 3 | 5 | 1 | 1 | 1 | 1 | 2 | 5 | 3 | 1 | 4 | 14 | |

TABLE I.—Showing total number of deaths in the District of Columbia, etc.—Continued.

| Cause of death. | 1888. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----|----|--------|----|----|----------------------|----|----|--------|----|----|------|----|----|-------|----|----|-----------------------|----|----|----|----|----|----|----|----|
| | February. | | | March. | | | Total third quarter. | | | April. | | | May. | | | June. | | | Total fourth quarter. | | | | | | | | |
| | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. |
| | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | |
| CLASS II.—CONSTITUTIONAL DISEASES.
Order 1.— <i>Diathetic</i> —Continued. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CLASS III.—LOCAL DISEASES.
Order 1.— <i>Nervous system</i> . | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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[illegible]

Order 2.—Circulatory organs.

[illegible]

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | SOCIAL RELATIONS. | | | | | | NATIVITY. | | | | | | | | | | | |
|---|------------------------|----|----|----------|----|----|-----------------------|-----|-----|----------------------------------|-----|----|----------|----|----|----------|----|----|
| | Widow or wid-
ower. | | | Unknown. | | | District of Columbia. | | | Other parts of United
States. | | | Foreign. | | | Unknown. | | |
| | W. | C. | M. | W. | C. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. |
| CLASS II.—CONSTITUTIONAL DISEASES. | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Diathetic</i> —Continued. | | | | | | | | | | | | | | | | | | |
| Cancer of rectum
not located | 1 | | | | | | | | | 1 | 1 | 1 | | | | | | |
| Malignant fibro-cystic tumor | | | | | | | | | | 2 | | | | | | | | |
| Osteo-sarcoma of vertebrae | 1 | | | | | | 1 | | | | | | | | | | | |
| Osteo-sarcoma | | | | | | | 1 | | | | 1 | | | | | | | |
| Total diathetic diseases | 4 | 28 | 1 | 11 | | | 14 | 18 | 4 | 23 | 37 | 10 | 32 | 16 | 22 | | | |
| Order 2.— <i>Tubercular</i> . | | | | | | | | | | | | | | | | | | |
| Tubercular peritonitis | | | | | | | | | | | | | 1 | | | | | |
| Scrofulous abscess | | | | | | | | | | | | | 2 | | | | | |
| Psoas abscess | | | | | | | | | | | | | | 1 | | | | |
| Scrofula | | | | | | | 1 | 1 | 8 | | | | | | | | | |
| Hydrocephalus | | | | | | | 4 | 2 | 3 | 1 | | | | | | | | |
| Tuberculosis | | | | | | | 7 | 1 | 6 | 3 | | | | | | | | |
| Marasmus | 2 | 2 | | | | | 21 | 23 | 18 | 4 | 4 | 6 | 7 | 1 | | | | |
| Tubercular meningitis | 1 | | | | | | | | | | | 1 | | | | | | |
| Tabes mesenterica | | | | | | | 7 | 8 | 8 | 2 | | 1 | 4 | | | | | |
| Rachitis | | | | | | | 1 | | 3 | | | | 8 | | | | | |
| Morbus coxae | | | | | | | | | 2 | | | | 1 | | | | | |
| Pott's disease | | | | | | | | | | | | | | | | | | 1 |
| Consumption | 15 | 30 | 10 | 32 | | | 60 | 80 | 52 | 72 | 83 | 75 | 149 | 37 | 22 | 1 | 2 | |
| Total tubercular diseases | 15 | 30 | 12 | 35 | | | 101 | 115 | 100 | 114 | 91 | 87 | 174 | 38 | 23 | 1 | 3 | |
| Total constitutional diseases | 19 | 58 | 13 | 46 | | | 115 | 133 | 104 | 128 | 101 | 97 | 206 | 54 | 45 | 1 | 3 | |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | |
| Order 1.— <i>Nervous sys em.</i> | | | | | | | | | | | | | | | | | | |
| Meningitis, cerebral | 2 | | | 1 | | | 16 | 14 | 11 | 10 | 1 | 2 | 2 | 3 | 1 | | | |
| spinal | | | | | | | 1 | | 1 | 1 | 1 | | | | | | | |
| cerebro-spinal | | | | | | | 3 | 2 | 4 | 1 | | | | | | | | |
| Apoplexy | 11 | 17 | 5 | 9 | | | 14 | 5 | 3 | 3 | 18 | 15 | 20 | 19 | 7 | 1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----|-------|-------|-------|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|---|---|
| Atrophy of liver | 1 | .019 | .003 | .013 | 1 | 1 | 3 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Hepatitis | 6 | .120 | .034 | .013 | 2 | 2 | 3 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Hepatic induration | 1 | .019 | .006 | .013 | 1 | 1 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Congestion of liver | 1 | .019 | .006 | .013 | 1 | 1 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Hypertrophy of liver | 2 | .040 | .014 | .013 | 2 | 2 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Acute yellow atrophy of liver | 2 | .040 | .014 | .013 | 1 | 1 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Multiple tumor of liver | 1 | .019 | .013 | .013 | 1 | 1 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Hernia | 4 | .040 | .021 | .013 | 2 | 2 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Constipation | 1 | .019 | .013 | .013 | 1 | 1 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Perityphlitis | 3 | .060 | .014 | .013 | 1 | 1 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Fistula in ano | 1 | .019 | .006 | .013 | 1 | 1 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Ulceration of rectum | 1 | .019 | .007 | .013 | 1 | 1 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Obstruction of bowels | 3 | .060 | .014 | .013 | 2 | 2 | 1 | 1 | 59 | 54 | 107 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 |
| Total diseases of digestive organs | 332 | 6.586 | 1.459 | 1.505 | 111 | 107 | 54 | 59 | 219 | 113 | 165 | 167 | 12 | 16 | 9 | 17 | 18 | 11 | 6 | 7 | | | |

Order 5.—*Urinary organs.*

| | 60 | 1.190 | .238 | .335 | 18 | 17 | 10 | 15 | 35 | 25 | 28 | 32 | 3 | 2 | 1 | 1 | 3 |
|--|-----|-------|-------|-------|-------|----|----|----|-------|----|----|----|---|---|---|---|---|
| Bright's disease. | 36 | .14 | .158 | .175 | 14 | 9 | 10 | 3 | 23 | 13 | 24 | 12 | 1 | 1 | 1 | 1 | 1 |
| Nephritis. | 7 | .138 | .040 | .013 | 6 | 1 | 1 | 1 | 6 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cystitis. | 6 | .120 | .026 | .026 | 3 | 1 | 1 | 1 | 4 | 2 | 4 | 2 | 2 | 1 | 1 | 1 | 1 |
| Uræmia. | 1 | .020 | .006 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Addison's disease. | 1 | .020 | .006 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Congestion of kidney. | 1 | .020 | .006 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Renal dropsy. | 1 | .020 | .006 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Urinary fistula. | 1 | .020 | .006 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Calculus. | 1 | .020 | .006 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Enlarged prostate. | 4 | .080 | .020 | .013 | 3 | 1 | 1 | 1 | 3 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| Villous disease of bladder. | 1 | .020 | .006 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Diabetes. | 7 | .138 | .035 | .026 | 2 | 3 | 1 | 1 | 5 | 2 | 3 | 4 | 1 | 1 | 1 | 1 | 1 |
| Albuminuria. | 6 | .120 | .026 | .026 | 2 | 2 | 2 | 1 | 4 | 2 | 4 | 2 | 1 | 1 | 1 | 1 | 1 |
| Hæmorrhage from bladder. | 1 | .020 | ..... | .013 | ..... | 1 | 1 | 1 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Suppression of urine. | 1 | .020 | ..... | .013 | ..... | 1 | 1 | 1 | ..... | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cirrhosis of kidney. | 3 | .058 | .020 | ..... | 3 | 1 | 1 | 1 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total diseases of urinary organs. | 137 | 2.718 | .599 | .640 | 55 | 34 | 27 | 21 | 89 | 48 | 82 | 55 | 5 | 4 | 1 | 3 | 4 |

Order 6.—*Generative organs.*

[illegible]

| | 7 | 5 | 4 | 2 | 12 | 7 | 3 | 5 | 25 | 18 | 8 | 9 | 2 | 9 | 2 | 1 | 5 | 7 | 7 | 6 | 19 | 13 | 7 | 8 | 26 | 29 | 16 | 15 |
|--|---|---|---|---|----|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|----|----|---|---|----|----|----|----|
| Jaundice | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic abscess | | | | | | | 1 | | | 1 | | | | | | | 1 | | | | | | | | | | | 1 |
| Atrophy of liver | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatitis | | | | | | | | | 1 | | | | | | | | 1 | | | | | | 1 | | | 1 | | 1 |
| Hepatic induration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of liver | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Hypertrophy of liver | | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Acute yellow atrophy of liver | | | | | | | | | | 1 | | | | | | | | 1 | | | | | | | 1 | 1 | | 1 |
| Multiple tumor of liver | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 |
| Hernia | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | |
| Constipation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perityphlitis | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | |
| Fistula in ano | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulceration of rectum | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Obstruction of bowels | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 | |
| Total diseases of digestive organs | 7 | 5 | 4 | 2 | 12 | 7 | 3 | 5 | 25 | 18 | 8 | 9 | 2 | 9 | 2 | 1 | 5 | 7 | 7 | 6 | 19 | 13 | 7 | 8 | 26 | 29 | 16 | 15 |

Order 5.—*Trinary organs.*

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|----|---|---|---|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|
| Bright's disease..... | 1 | 3 | | 3 | 3 | 2 | 2 | 1 | 5 | 5 | 2 | 4 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 5 | 4 | 8 | 6 | 2 |
| Nephritis | 2 | | 1 | | 3 | | 2 | 1 | 6 | | | | | | | | 1 | 1 | | 4 | 1 | | 4 | 2 |
| Cystitis..... | 1 | | | | 1 | | | | 2 | | | | | | | | | | | 3 | | | | |
| Uremia..... | | | | | 1 | | | | 1 | | | | | | | | | | | | 1 | | | |
| Addison's disease | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Congestion of kidney..... | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Renal dropsy | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary fistula..... | 1 | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Calculus | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Enlarged prostate | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Villous disease of bladder | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Diabetes | | 2 | | | | | | | 1 | | | | | | | | | | | | | | | |
| Albuminuria | 2 | | 1 | | | | 1 | | 2 | | | | | | | | | | | | | 1 | | |
| Suppression of urine | | | | | | | | | | | | | | | | | | | | | | | | |
| Cirrhosis of kidney..... | | | | | | | | | | | | | | | | | | | | | | | | |
| Hæmorrhage from bladder..... | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Total diseases of urinary organs..... | 7 | 5 | 2 | 3 | 10 | 2 | 5 | 2 | 21 | 7 | 8 | 8 | 7 | 2 | | | 3 | 2 | 14 | | 8 | 6 | | 2 |

Order 6.—*Generative organs.*

[illegible]

TABLE I.—Showing total number of deaths in the District of Columbia, etc.—Continued.

| AGE OF DECEDENT. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----|--|---------------|----|---------------|----|----|---------------|----|----|---------------|----|----|---------------|----|----|----------------------|----|----|--------|--|----|----|----|----|-----|--------|
| Cause of death. | | | Under 1 year. | | 1 to 2 years. | | | 2 to 3 years. | | | 3 to 4 years. | | | 4 to 5 years. | | | Total under 5 years. | | | Total. | Per cent. of each cause to total mortality under 5 years of age. | | | | | | |
| | | | W. | C. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | W. | M. | F. | | | | | | | | |
| M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | | | | | | | |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 3.—Respiratory organs—Continued. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laryngitis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gangrene of throat | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchitis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pneumonia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of lungs | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleurisy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pulmonary hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema of lung | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pulmonary collapse | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gangrene of lung | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess of lung | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 19 | | 51 | 37 | | 13 | 11 | | 22 | 20 | | 4 | 2 | | 8 | 4 | | 1 | 2 | | 4 | 39 | 34 | 86 | 68 | 227 | 11.726 |
| Total diseases of respiratory organs | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 4.—Digestive organs. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomatitis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dentition | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of stomach | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage of stomach | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gastritis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gastro-enteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Enteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colitis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spasm of stomach | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritonitis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of bowels | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gastric ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intussusception | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer of bowels | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indigestion and dyspepsia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Obstruction of bile-ducts | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cirrhosis of liver | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic colic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jaundice | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|----|----|----|-----------------|----|----|----|-----------------|----|----|----|-----------------|----|----|----|-----------------|----|----|----|-----------------|----|----|----|-----------------|----|----|----|---|
| | 5 to 10 years. | | | | 10 to 20 years. | | | | 20 to 30 years. | | | | 30 to 40 years. | | | | 40 to 50 years. | | | | 50 to 60 years. | | | | 60 to 70 years. | | | | |
| | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | W. | C. | M. | F. | |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Order 3.—Respiratory organs—Continued. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laryngitis | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gangrene of throat | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchitis | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pneumonia | 2 | 3 | 3 | 1 | 4 | 6 | 6 | 2 | 2 | 5 | 10 | 8 | 4 | 11 | 4 | 1 | 1 | 1 | 4 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 15 | 4 |
| Congestion of lungs | | | | | 1 | 2 | | 1 | 1 | | 3 | 1 | 4 | | | | 1 | 1 | 4 | 3 | | 1 | 2 | | 1 | 3 | 1 | 5 | 4 |
| Pleurisy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pulmonary hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema of lungs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pulmonary collapse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gangrene of lung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess of lung | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | |
| Total diseases of respiratory organs..... | 3 | 3 | 3 | 3 | 5 | 8 | 6 | 6 | 3 | 5 | 16 | 11 | 9 | 11 | 5 | 6 | 12 | 13 | 15 | 6 | 21 | 12 | 11 | 5 | 24 | 23 | 7 | 6 | |
| Order 4.—Digestive organs. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomatitis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dentition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion of stomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage of stomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gastritis | | | 1 | 1 | | | | | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | | | |
| Gastro-enteritis | | | 1 | 1 | | 1 | | | | 1 | | | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | | | |
| Enteritis | | | 1 | | | | | | 1 | | | | 1 | 1 | | | 1 | 5 | | | | | | 3 | | | | | |
| Colitis | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Spasm of stomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritonitis | | | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 2 | 2 | | | 1 | | | | | | |
| Congestion of bowels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gastric ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | | | |
| Intussusception | | | 1 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer of bowels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indigestion and dyspepsia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Obstruction of bile-ducts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cirrhosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic colic | | | | | | | | | | | | | 2 | | | | 1 | 2 | 1 | | 2 | 2 | 1 | 3 | | | | | 1 |
| Jaundice | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | SOCIAL RELATIONS. | | | | | | NATIVITY. | | | | | | | | | | | |
|--|-------------------|----|----|----------|----|----|-----------------------|----|----|----|----|----|-------------------------------|----|----|----|----|----|
| | Widow or widower. | | | Unknown. | | | District of Columbia. | | | | | | Other parts of United States. | | | | | |
| | W. | | C. | W. | | C. | W. | | C. | M. | | F. | W. | | C. | M. | | F. |
| | M. | F. | M. | M. | F. | M. | M. | F. | M. | M. | F. | F. | M. | F. | C. | M. | F. | C. |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | |
| Order 3.—Respiratory organs—Continued. | | | | | | | | | | | | | | | | | | |
| Laryngitis | | | | | | | 2 | 1 | | | | | | | | | | |
| Gangrene of throat | | | | | | | | | | | | | | | | | | |
| Bronchitis | 6 | 13 | | | 2 | | 10 | 11 | 26 | | | | 5 | 9 | 1 | 4 | 2 | 6 |
| Pneumonia | 10 | 25 | 9 | 7 | | | 32 | 36 | 60 | | | | 32 | 41 | 40 | 18 | 18 | 10 |
| Congestion of lungs | | 3 | 1 | 2 | | | 10 | 7 | 8 | | | | 8 | 3 | 11 | 6 | 2 | 1 |
| Pleurisy | 1 | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | |
| Pulmonary hemorrhage | | | | | | | | 1 | | | | | | | | | | |
| Edema of lung | | 1 | 1 | | | | 1 | 1 | | | | | 1 | 1 | 2 | 3 | 1 | |
| Pulmonary collapse | | | | | | | | | | | | | 1 | 1 | 1 | | | |
| Gangrene of lung | | | | | | | 1 | | | | | | 1 | | | | | |
| Abscess of lung | | | | | | | | | | | | | | | | | 1 | |
| Total diseases of respiratory organs | 17 | 44 | 13 | | | | 56 | 59 | 94 | 81 | 51 | 56 | 60 | 38 | | 26 | 21 | |
| Order 4.—Digestive organs. | | | | | | | | | | | | | | | | | | |
| Stomatitis | | | | | | | | | | | | | | | | | | |
| Dentition | | | | | | | | | | | | | | | | | | |
| Congestion of stomach | 1 | | | | | | 23 | 20 | 18 | 1 | 1 | 1 | 2 | | | | | |
| Hemorrhage of stomach | | | | | | | | 1 | | | | | | | | | | |
| Gastritis | 2 | 6 | | | | | 6 | 4 | 1 | 4 | 6 | 8 | 1 | 8 | 1 | 2 | 5 | 3 |
| Gastroenteritis | 1 | 5 | 2 | | | | 13 | 16 | 1 | 13 | 2 | 4 | 2 | 4 | 2 | 3 | 3 | 1 |
| Enteritis | | 3 | 2 | | | | 6 | 3 | 4 | 3 | 3 | 9 | 3 | 9 | 3 | 2 | 1 | |
| Colitis | | 1 | | | | | | | | | | 2 | | | | | | |
| Spasm of stomach | | | | | | | | | | | | | | | | | | |
| Peritonitis | 1 | 1 | 1 | | | | 1 | 1 | 2 | 1 | 3 | 2 | | 2 | 4 | 1 | 2 | 3 |
| Congestion of bowels | | | | | | | 1 | 1 | 1 | | 1 | | | | | | | |
| Gastric ulcer | 1 | 1 | | | | | | | | | 1 | 2 | | 2 | | | 2 | |
| Intussusception | | | | | | | 2 | | | | | | | | | | 1 | 1 |
| Ulcer of bowels | | | | | | | | | | | | | | | | | | |
| Indigestion and dyspepsia | | | | | | | 2 | 4 | 2 | 2 | | | | | | | | |
| Colic | | | | | | | | | | | | | | | | | | |
| Obstruction of bile-ducts | | | 1 | | | | | | | 2 | | 1 | | | | | | |
| Carbuncles of liver | 2 | 2 | | | | | 1 | 1 | | | 5 | 1 | 2 | 1 | | 3 | 3 | |
| Hepatic colic | | | | | | | | | | | | | | | | | | |
| Jaundice | | | | | | | | 1 | | | 1 | | | | | | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | Total deaths from each cause. | Percent. of each cause to total mor- tality. | DEATH RATE. | | RECAPITULATION. | | | | | | | | | | 1887. | | | |
|---|-------------------------------|--|-------------------------------|--------|-------------------------|-----|-----|-------|-----|-----------------|-----|---------------|----|----|-------|----|---------|----|
| | | | Deaths per 1,000 inhabitants. | | Total by color and sex. | | | | | Total by color. | | Total by sex. | | | July. | | August. | |
| | | | W. | C. | W. | M. | F. | C. | W. | C. | W. | M. | F. | C. | W. | C. | W. | C. |
| | | | W. | C. | M. | F. | M. | F. | W. | C. | M. | F. | M. | F. | M. | F. | M. | F. |
| CLASS III.—LOCAL DISEASES. | | | | | | | | | | | | | | | | | | |
| Order 6.—Generative organs—Continued. | | | | | | | | | | | | | | | | | | |
| Intra-peritoneal hamatocoele | 1 | .010 | | | | | | | | | | | | | | | | |
| Recto-vaginal fistula | 1 | .020 | .006 | | | | 1 | | | | | | | | | | | |
| Total diseases of generative organs | 24 | .475 | .088 | .131 | 1 | 13 | 10 | 14 | 10 | 1 | 23 | | | | 1 | | | |
| Order 7.—Osseous and locomotory. | | | | | | | | | | | | | | | | | | |
| Abscess of shoulder-joint | 1 | .020 | | .013 | | | 1 | | | | | | | | | | | |
| Necrosis of spine | 1 | .020 | .006 | | | | | | | | | | | | | | | |
| Inflammation of knee-joint | 1 | .020 | .006 | | | 1 | | | | | | | | | | | | |
| Pyarthritia | 1 | .020 | .006 | | | 1 | | | | | | | | | | | | |
| Synovitis of wrist | 1 | .020 | .006 | | | | 1 | | | | | | | | | | | |
| Necrosis of ankle joint | 1 | .020 | .013 | | | | | 1 | | | | | | | | | | |
| Gangrene of foot | 2 | .040 | .006 | .013 | | 1 | | | | | | | | | | | | |
| Abscess of hand | 1 | .020 | .006 | | | 1 | | | | | | | | | | | | |
| Sarcoma of leg | 1 | .020 | .006 | | | 1 | | | | | | | | | | | | |
| Abscess of thigh | 1 | .020 | .006 | | | 1 | | | | | | | | | | | | |
| Cellulitis | 2 | .040 | .026 | | | | 1 | 1 | | | | | | | | | | |
| Otitis | 4 | .080 | .022 | .013 | 3 | | 1 | 3 | 1 | | 4 | | | | | | | |
| Whitlow | 1 | .020 | .007 | | | 1 | | | | | | | | | | | | |
| Caries of joints | 2 | .040 | .026 | | | | 2 | | | | | | | | | | | 1 |
| Total osseous and locomotory diseases | 20 | .400 | .077 | .104 | 8 | 4 | 6 | 12 | 8 | 14 | 6 | | | | | | | 1 |
| Total local diseases | 2,079 | 41.255 | 8.000 | 11.700 | 677 | 524 | 455 | 1,201 | 878 | 1,132 | 917 | 81 | 40 | 33 | 41 | 53 | 31 | 27 |
| CLASS IV.—DEVELOPMENTAL DISEASES. | | | | | | | | | | | | | | | | | | |
| Order 1.—Infants. | | | | | | | | | | | | | | | | | | |
| Premature birth | 93 | 1.844 | .256 | .734 | 21 | 17 | 26 | 29 | 35 | 55 | 47 | 46 | 2 | 3 | 2 | 1 | 6 | 5 |
| Congenital debility | 133 | 2.638 | .328 | 1.122 | 21 | 25 | 47 | 37 | 49 | 84 | 71 | 62 | 2 | 4 | 3 | 1 | 1 | 3 |
| Icterus neonatorum | 3 | .060 | .013 | .013 | 1 | 1 | 1 | | 2 | 1 | 2 | 1 | | 1 | | | | |
| Cyanosis | 12 | .240 | .067 | .026 | 5 | 5 | 2 | | 10 | 2 | 7 | 5 | 2 | | | | 1 | |
| Umbilical hamorrhage | 2 | .040 | .026 | | | | 2 | | 2 | 2 | 2 | | | | | | | |
| Prolonged labor | 6 | .120 | .020 | .040 | 3 | | 1 | 7 | 3 | 3 | 4 | 2 | 1 | | | | | |

| | | |
|-----------------|---|----|
| Hard labor..... | 1 | </ |
|-----------------|---|----|

[illegible]

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | SOCIAL RELATIONS. | | | | | | NATIVITY. | | | | | | | | | | | |
|--|-------------------|-----|----|----------|----|----|-----------------------|-----|-----|-----|-------------------------------|-----|-----|-----|----------|----|----|----|
| | Widow or widower. | | | Unknown. | | | District of Columbia. | | | | Other parts of United States. | | | | Foreign. | | | |
| | W. | M. | C. | W. | M. | C. | W. | M. | C. | F. | M. | C. | W. | M. | C. | W. | M. | C. |
| | | | | | | | | | | | | | | | | | | |
| | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | | M. | F. | |
| | 2 | | 2 | | | | 2 | | | 3 | 1 | 8 | | | 7 | | | |
| Intra-peritoneal hematocoele..... | | | | | | | | | | 1 | | | | | | | | |
| Recto vaginal fistula..... | | | | | | | | | | | | | | | | | | |
| Total diseases of generative organs..... | 2 | | 2 | | | | 2 | | | 3 | 1 | 8 | | | 7 | | | |
| Order 6.— <i>Generative organs</i> —Continued. | | | | | | | | | | | | | | | | | | |
| Abscess of shoulder-joint..... | | | | | | | | | | | | | | | | | | |
| Necrosis of spine..... | | | 1 | | | | | | | | | | | | 1 | | | |
| Inflammation of knee-joint..... | | | | | | | | | | | | | | | | 1 | | |
| Pyarthritia..... | | | | | | | | | | | | | | | 1 | | | |
| Synovitis of wrist..... | 1 | | | | | | | | | | | | | | | | | |
| Necrosis of ankle-joint..... | | | | | | | | | | 1 | | | | | | | | |
| Gangrenæ of foot..... | | | | | | | | | | | | | | | | | | |
| Abscess of hand..... | | | | | | | | | | | | | | | | | | |
| Sarcoma of leg..... | | | | | | | 1 | | | | | | | | | 1 | | |
| Abscess of thigh..... | 1 | | | | | | | | | | 1 | | | | | | | |
| Cellulitis..... | | | | | | | | | | | | | | | 1 | | | |
| Ostitis..... | | | | | | | 3 | | | | | | | | 1 | | | |
| Whitlow..... | | | | | | | | | | | | | | | | | | |
| Caries of joints..... | | | | | | | | | | | | | | | 2 | | | |
| Total osseous and locomotory diseases..... | 1 | 1 | 1 | | | | 4 | 1 | | 1 | 2 | 1 | 6 | 1 | 2 | 2 | | |
| Total local diseases..... | 76 | 161 | 41 | 82 | 2 | | 245 | 228 | 231 | 247 | 253 | 268 | 220 | 176 | 175 | 86 | 1 | 4 |
| Class IV.—DEVELOPMENTAL DISEASES. | | | | | | | | | | | | | | | | | | |
| Order 1— <i>Infants</i> . | | | | | | | | | | | | | | | | | | |
| Premature birth..... | | | | | | | | | | | | | | | | | | |
| Congenital debility..... | | | | | | | 21 | 17 | 26 | 29 | | | | | | | | |
| Icterus neonatorum..... | | | | | | | 24 | 25 | 47 | 37 | | | | | | | | |
| Cyanosis..... | | | | | | | 1 | 1 | 1 | 1 | | | | | | | | |
| Umbilical hemorrhage..... | | | | | | | 6 | 5 | 2 | 2 | | | | | | | | |

[illegible]

[illegible]

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | | |
|---|------------------|----|-----------------|----|-----------------|----|-----------------|----|-----------------|----|-----------------|----|-----------------|----|
| | 5 to 10 years. | | 10 to 20 years. | | 20 to 30 years. | | 30 to 40 years. | | 40 to 50 years. | | 50 to 60 years. | | 60 to 70 years. | |
| | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. |
| CLASS V.—VIOLENCE. | | | | | | | | | | | | | | |
| Order 1.—Accidents and negligence—Continued. | | | | | | | | | | | | | | |
| Run over by cart..... | | | | | 1 | | | | | | | | | |
| mule..... | | | | | | 1 | | | | | | | | |
| Fracture of pelvis..... | | 1 | | | | | | | | | | | | |
| at base of brain..... | 1 | | | | | | | | | | | | | |
| of femur..... | | | | | | | | | 1 | | | | | |
| neck of femur..... | | | | | | | | | | | | | | |
| legs..... | | | | | 1 | | | | | | | | | |
| skull..... | | | | | | | | | 1 | | | | | |
| ribs and pelvis..... | | | | | | | | | | | | | | |
| vertebrae..... | | | | | | | 1 | | | | | | | |
| Burns and scalds..... | 1 | 2 | | | 1 | 2 | 1 | | | | | | | |
| Drowned..... | 1 | | 4 | | 5 | 1 | 1 | | | 1 | | | 2 | |
| Mushrooms..... | | | | | | | | | | | 1 | | | |
| Aqua ammonia..... | | | | | | | | | | | | | | |
| Choked while eating..... | | | | | | | | | | | | | | |
| Illuminating gas..... | | | | | | | | | 1 | | | | | |
| Coal gas..... | | | | | | | | | | | | | | |
| Smothered..... | | | | | | | | | | | | | | |
| Overlaid..... | | | | | | | | | | | | | | |
| Injury of spine..... | | | | | | | | | 1 | | | | | |
| resulting in paralysis..... | | | | | | | | | | 1 | | | | |
| Nail wound of foot, tetanus..... | | | | 1 | 1 | | 1 | | | | | | | |
| Tetanus, traumatic..... | | | | | | | | 1 | | | | | | |
| Scratch on hand with needle..... | | | | | | | | | | | 1 | | | |
| Traumatic gastritis..... | | | | | | | | 1 | | | | | | |
| Concussion of brain..... | | 1 | | | | | | | | | | | | |
| Fall..... | | | | | | | | | | | | | | |
| from window..... | | | | | | 1 | | | | | | | | |
| tree..... | | | | | | 1 | | | | | | | | |
| down stairs..... | | | | | | | | | | | | | | |
| from scaffold..... | | | | | | 1 | | | | | | | | |
| building..... | | | | | | | 2 | | | | | | | |
| of bale of hay..... | | | | | | | | | | | | 1 | | |
| telephone pole..... | | | | | | 1 | | | | | | 1 | | |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | SOCIAL RELATIONS. | | | | | |
|-----------------------------|------------------|----|----|----|---------------------------------|----|----|----|--------------|----|----|----|-------------------|----|----|---------|--|--|
| | 70 to 80 years. | | | | 80 to 90 years. Above 90 years. | | | | Unknown age. | | | | Married. | | | Single. | | |
| | W. | F. | M. | C. | W. | F. | M. | C. | W. | F. | M. | C. | W. | F. | M. | C. | | |
| Run over by cart | | | | | | | | | | | | | | | | | | |
| mule | | | | | | | | | | | | | | | | | | |
| Fracture of pelvis | | | | | | | | | | | | | | | | | | |
| at base of brain | | | | | | | | | | | | | | | | | | |
| of femur | 2 | | | | | | | | | | | | | | | | | |
| neck of femur | | | | | | | | | | | | | | | | | | |
| leg | | | | | | | | | | | | | | | | | | |
| skull | | | | | | | | | | | | | | | | | | |
| ribs and pelvis | 1 | | | | | | | | | | | | | | | | | |
| vertebrae | | | | | | | | | | | | | | | | | | |
| Burns and scalds | | | | | | | | | | | | | | | | | | |
| Drowned | | | | | | | | | | | | | | | | | | |
| Mushrooms | | | | | | | | | | | | | | | | | | |
| Aqua ammonia | | | | | | | | | | | | | | | | | | |
| Choked while eating | 1 | | | | | | | | | | | | | | | | | |
| Illuminating gas | | | | | | | | | | | | | | | | | | |
| Coal gas | | | | | | | | | | | | | | | | | | |
| Smothered | | | | | | | | | | | | | | | | | | |
| Overlaid | | | | | | | | | | | | | | | | | | |
| Injury of spine | | | | | | | | | | | | | | | | | | |
| resulting in paralysis | | | | | | | | | | | | | | | | | | |
| Nail wound of foot, tetanus | | | | | | | | | | | | | | | | | | |
| Tetanus, traumatic | | | | | | | | | | | | | | | | | | |
| Scratch on hand with needle | | | | | | | | | | | | | | | | | | |
| Traumatic gastritis | | | | | | | | | | | | | | | | | | |
| Concussion of brain | | | | | | | | | | | | | | | | | | |
| Fall | 2 | | | | | | | | | | | | | | | | | |
| from window | | | | | | | | | | | | | | | | | | |
| tree | | | | | | | | | | | | | | | | | | |
| down stairs | | | | | | | | | | | | | | | | | | |
| from scaffold | | | | | | | | | | | | | | | | | | |
| building | | | | | | | | | | | | | | | | | | |
| of bale of hay | | | | | | | | | | | | | | | | | | |
| telephone pole | | | | | | | | | | | | | | | | | | |

CLASS V.—VIOLENCE.

Order 1.—Accidents and negligence—Continued.

TABLE I.—*Showing total number of deaths occurring in the District of Columbia, etc., etc.*—Continued.

[illegible]

| | | | | | | | | | | | | | | | | | |
|--|-------|---------|--------|--------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|-----|-------|------|
| Homicides | 22 | .438 | .053 | .185 | 7 | 1 | 10 | 4 | 8 | 14 | 17 | 5 | 1 | 1 | 1 | 3 | 1 |
| Suicides | 18 | .356 | .120 | .. | 13 | 5 | .. | .. | 1 | .. | 13 | 5 | 2 | 1 | .. | 2 | .. |
| Total violence | 160 | 3.174 | .606 | .920 | 68 | 23 | 45 | 24 | 91 | 69 | 113 | 47 | 11 | 1 | 7 | 2 | 5 |
| SUMMARY. | | | | | | | | | | | | | | | | | |
| I. Zymotic diseases | 1,123 | 22.280 | 4 200 | 6,151 | 333 | 306 | 226 | 258 | 609 | 484 | 559 | 564 | 58 | 47 | 40 | 46 | 32 |
| II. Constitutional diseases | 1,117 | 22.160 | 3,846 | 7,200 | 270 | 307 | 204 | 336 | 577 | 540 | 474 | 643 | 21 | 26 | 21 | 24 | 32 |
| III. Local diseases | 2,079 | 41.255 | 8,000 | 11,700 | 677 | 524 | 455 | 433 | 1,201 | 878 | 1,132 | 947 | 81 | 40 | 33 | 41 | 22 |
| IV. Developmental diseases | 561 | 11.131 | 1,800 | 3,800 | 108 | 102 | 119 | 172 | 270 | 291 | 227 | 334 | 10 | 15 | 10 | 11 | 35 |
| V. Violence | 160 | 3.174 | .606 | .920 | 68 | 23 | 45 | 24 | 91 | 69 | 113 | 47 | 11 | 1 | 7 | 2 | 16 |
| Grand total from all causes, by sex and color | 5,040 | 100.000 | 18,512 | 30,151 | 1,456 | 1,322 | 1,049 | 1,213 | 2,778 | 2,262 | 2,505 | 2,535 | 181 | 129 | 111 | 124 | 107 |
| Total from all causes, by color | .. | .. | .. | .. | 2,778 | .. | 2,262 | .. | 2,778 | 2,262 | .. | .. | 310 | 235 | .. | 224 | 128 |
| Percentages, by color, to total mortality | .. | .. | .. | .. | 55.12 | .. | 41.88 | .. | 55.12 | 44.88 | .. | .. | 6.15 | 4.66 | .. | 4.44 | 3.72 |
| Rate of deaths per 1,000 inhabitants (white and colored) | .. | .. | .. | .. | .. | .. | .. | .. | 18,520 | 30,160 | .. | .. | 2.06 | 3.13 | .. | 1.49 | 2.50 |
| Grand total from all causes | 5,040 | .. | .. | .. | .. | .. | .. | .. | 5,040 | 5,040 | .. | .. | 545 | .. | .. | 412 | .. |
| Death-rate per 1,000 inhabitants (total) | .. | .. | .. | .. | .. | .. | .. | .. | 22,400 | 22,400 | .. | .. | 2,420 | .. | .. | 1,829 | .. |

TABLE I.—Showing total number of deaths occurring in the District of Columbia, etc.—Continued.

| Cause of death. | | 1888. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|-----------|----|----|----|----|----|--------|----|----|----|----|----|----------------------|----|----|----|----|----|--------|----|----|----|----|----|------|----|----|----|----|----|-------|----|----|----|----|----|-----------------------|
| | | February. | | | | | | March. | | | | | | Total third quarter. | | | | | | April. | | | | | | May. | | | | | | June. | | | | | | Total fourth quarter. | |
| | | W. | F. | M. | F. | M. | F. | W. | F. | M. | F. | M. | F. | W. | F. | M. | F. | M. | F. | W. | F. | M. | F. | M. | F. | W. | F. | M. | F. | W. | F. | M. | F. | W. | F. | M. | F. | W. | F. | M. | F. | W. |

TABLE I.—Showing total number of deaths occurring in District of Columbia, etc., etc.—Continued.

| Cause of death. | AGE OF DECEDENT. | | | | | | | | | | | | | | | | | | Per cent.
of each
cause to
total mor-
tality un-
der 5 years
of age. | | |
|------------------------------------|------------------|----|----|---------------|----|----|---------------|----|----|---------------|----|----|---------------|----|----|----------------------|----|----|--|--------|--|
| | Under 1 year. | | | 1 to 2 years. | | | 2 to 3 years. | | | 3 to 4 years. | | | 4 to 5 years. | | | Total under 5 years. | | | | | |
| | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | W. | | C. | | Total. | |
| | M. | F. | | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | | F. | |
| RECAPITULATION. | | | | | | | | | | | | | | | | | | | | | |
| Zymotic: | | | | | | | | | | | | | | | | | | | | | |
| Miasmatic diseases..... | | | | | | | | | | | | | | | | | | | | | |
| Etihetic..... | | | | | | | | | | | | | | | | | | | | | |
| Dietic..... | | | | | | | | | | | | | | | | | | | | | |
| Parasitic..... | | | | | | | | | | | | | | | | | | | | | |
| Total zymotic diseases..... | | | | | | | | | | | | | | | | | | | | | |
| Constitutional: | | | | | | | | | | | | | | | | | | | | | |
| Diathetic..... | | | | | | | | | | | | | | | | | | | | | |
| Tubercular..... | | | | | | | | | | | | | | | | | | | | | |
| Total constitutional diseases..... | | | | | | | | | | | | | | | | | | | | | |
| Local: | | | | | | | | | | | | | | | | | | | | | |
| Nervous system..... | | | | | | | | | | | | | | | | | | | | | |
| Circulatory organs..... | | | | | | | | | | | | | | | | | | | | | |
| Respiratory organs..... | | | | | | | | | | | | | | | | | | | | | |
| Digestive organs..... | | | | | | | | | | | | | | | | | | | | | |
| Urinary organs..... | | | | | | | | | | | | | | | | | | | | | |
| Generative organs..... | | | | | | | | | | | | | | | | | | | | | |
| Oscous and locomotory..... | | | | | | | | | | | | | | | | | | | | | |
| Total local diseases..... | | | | | | | | | | | | | | | | | | | | | |
| Developmental: | | | | | | | | | | | | | | | | | | | | | |
| Infants..... | | | | | | | | | | | | | | | | | | | | | |
| Women..... | | | | | | | | | | | | | | | | | | | | | |
| Old age..... | | | | | | | | | | | | | | | | | | | | | |
| Nutrition..... | | | | | | | | | | | | | | | | | | | | | |
| Total developmental diseases..... | | | | | | | | | | | | | | | | | | | | | |
| Violence: | | | | | | | | | | | | | | | | | | | | | |
| Accidents and negligence..... | | | | | | | | | | | | | | | | | | | | | |
| Judicial executions..... | | | | | | | | | | | | | | | | | | | | | |

[illegible]

| | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|-----|------|---|
| Homicides | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 | 869 | 870 | 871 | 872 | 873 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 890 | 891 | 892 | 893 | 894 | 895 | 896 | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 | 930 | 931 | 932 | 933 | 934 | 935 | 936 | 937 | 938 | 939 | 940 | 941 | 942 | 943 | 944 | 945 | 946 | 947 | 948 | 949 | 950 | 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 | 961 | 962 | 963 | 964 | 965 | 966 | 967 | 968 | 969 | 970 | 971 | 972 | 973 | 974 | 975 | 976 | 977 | 978 | 979 | 980 | 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1000 | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 | 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1382 | 1383 | 1384 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1395 | 1396 | 1397 | 1398 | 1399 | 1400 | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 | 1414 | 1415 | 1416 | 1417 | 1418 | 1419 | 1420 | 1421 | 1422 | 1423 | 1424 | 1425 | 1426 | 1427 | 1428 | 1429 | 1430 | 1431 | 1432 | 1433 | 1434 | 1435 | 1436 | 1437 | 1438 | 1439 | 1440 | 1441 | 1442 | 1443 | 1444 | 1445 | 1446 | 1447 | 1448 | 1449 | 1450 | 1451 | 1452 | 1453 | 1454 | 1455 | 1456 | 1457 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 | 1467 | 1468 | 1469 | 1470 | 1471 | 1472 | 1473 | 1474 | 1475 | 1476 | 1477 | 1478 | 1479 | 1480 | 1481 | 1482 | 1483 | 1484 | 1485 | 1486 | 1487 | 1488 | 1489 | 1 |
|-----------------|---|---|---|---|---|---|---|---|---|-----|------|---|

TABLE II.—Location of deaths, year ending June 30, 1888.

| Diseases. | West Washing-
ton. | | | | Washington. | | | | | | | | | | | |
|--|----------------------------------|------|---------------------------------|------|---|------|---|-------|--|-------|--|------|--|-------|--|------|
| | 1st division—west of 32d street. | | 2d division—east of 32d street. | | 3d division—south of K street and
west of 15th street northwest. | | 4th division—north of K street
and Vermont avenue northwest. | | 5th division—north of Massachu-
setts avenue, east of Vermont
avenue, and west of 1st street
northwest. | | 6th division—north of B street
south, west of 1st street west,
and south of Massachusetts
avenue northwest. | | 7th division—south of B street
south, west of 1st street west,
and Delaware avenue south-
west. | | 8th division—east of Delaware
avenue southwest, and south of
E street south. | |
| | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. |
| Consumption | 12 | 6 | 7 | 14 | 15 | 15 | 35 | 49 | 54 | 49 | 30 | 6 | 43 | 47 | 22 | 10 |
| Pneumonia | 6 | 2 | 1 | 3 | 15 | 11 | 20 | 17 | 20 | 16 | 27 | 11 | 19 | 25 | 12 | 13 |
| Chol- <i>era</i> infantum..... | 2 | 1 | 2 | ... | 4 | 3 | 8 | 20 | 14 | 17 | 6 | 7 | 13 | 18 | 19 | 2 |
| Scarlet fever | 2 | ... | 1 | ... | 4 | 1 | 4 | 1 | 2 | ... | ... | ... | 2 | ... | ... | ... |
| Diphtheria | 9 | 1 | 4 | 2 | ... | 1 | 6 | 2 | 7 | 2 | 5 | ... | 4 | 1 | 9 | 2 |
| Typhoid fever | 3 | 1 | 4 | 2 | 7 | 3 | 5 | 8 | 12 | 6 | 14 | 4 | 12 | 10 | 9 | 5 |
| Typho-malarial fever | ... | ... | ... | ... | ... | ... | 1 | 2 | 1 | 2 | ... | ... | ... | 1 | 2 | 1 |
| Malarial fever | 1 | ... | ... | ... | 3 | ... | 3 | ... | 1 | 3 | 1 | ... | 3 | 5 | 4 | 3 |
| Diarrhœal diseases other
than cholera infantum. | 2 | ... | 2 | 2 | 5 | 1 | 15 | 12 | 10 | 8 | 6 | ... | 7 | 12 | 6 | 3 |
| All other causes | 68 | 16 | 63 | 44 | 100 | 89 | 160 | 216 | 239 | 193 | 180 | 80 | 211 | 151 | 120 | 65 |
| Total | 105 | 27 | 84 | 67 | 153 | 124 | 257 | 330 | 360 | 296 | 278 | 108 | 314 | 270 | 204 | 104 |
| Percentage to total deaths
by color | 3.78 | 1.19 | 3.02 | 2.96 | 5.51 | 5.49 | 9.25 | 14.59 | 12.96 | 13.08 | 10.01 | 4.78 | 11.30 | 11.93 | 7.34 | 4.60 |

| Diseases. | Washington. | | | | County. | | | | | | | | Totals by color. | | Grand total. |
|---|--|------|--|------|---|------|---|------|------------------------------------|-------|------------------------|------|------------------|--------|--------------|
| | 9th division—north of E street south, east of 1st street west, and south of Maryland avenue. | | 10th division—east of 1st street west, and north of Maryland avenue northeast. | | 11th division—west of the Eastern Branch. | | 12th division—east of the Eastern Branch. | | Hospitals and public institutions. | | Unknown and not given. | | | | |
| | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | W. | C. | | | |
| Consumption..... | 19 | 30 | 41 | 18 | 17 | 14 | 5 | 22 | 50 | 72 | .. | .. | 350 | 352 | 702 |
| Pneumonia..... | 8 | 17 | 21 | 11 | 8 | 12 | 2 | 4 | 10 | 12 | .. | .. | 169 | 154 | 323 |
| Cholera infantum..... | 6 | 5 | 14 | 7 | 6 | 9 | 5 | 5 | 2 | 1 | .. | 1 | 91 | 96 | 187 |
| Scarlet fever..... | .. | .. | 1 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 17 | 2 | 19 |
| Diphtheria..... | 5 | .. | 3 | .. | 4 | 2 | .. | .. | .. | .. | .. | .. | 56 | 13 | 69 |
| Typhoid fever..... | 2 | 3 | 4 | 5 | 7 | 2 | 2 | .. | 14 | 24 | .. | .. | 95 | 73 | 168 |
| Typho-malarial fever..... | .. | .. | 2 | .. | .. | .. | .. | .. | 1 | 1 | .. | .. | 7 | 7 | 14 |
| Malarial fever..... | 3 | 2 | .. | 2 | .. | 1 | .. | 2 | .. | 1 | .. | .. | 19 | 19 | 38 |
| Diarrhœal diseases other than cholera infantum... | 7 | 8 | 12 | 8 | 8 | 3 | 3 | 12 | 13 | 19 | .. | .. | 96 | 88 | 184 |
| All other causes..... | 99 | 113 | 150 | 77 | 87 | 76 | 37 | 48 | 334 | 277 | 10 | 10 | 1,878 | 1,458 | 3,336 |
| Total..... | 149 | 178 | 248 | 128 | 138 | 119 | 54 | 93 | 424 | 407 | 10 | 11 | 2,778 | 2,262 | 5,040 |
| Percentage to total deaths by color..... | 5.36 | 7.87 | 8.93 | 5.66 | 4.97 | 5.26 | 1.94 | 4.11 | 15.27 | 17.99 | 0.36 | 0.49 | 100.00 | 100.00 | .... |

TABLE III.—Deaths under one year of age, arranged monthly, for year ending June 30, 1888.

| | 1 day and under. | 1 day to 1 week. | 1 week to 1 month. | 1 to 2 months. | 2 to 3 months. | 3 to 4 months. | 4 to 5 months. | 5 to 6 months. | 6 to 7 months. | 7 to 8 months. | 8 to 9 months. | 9 to 10 months. | 10 to 11 months. | 11 to 12 months. | Total. | Total by color. | Percentage to total mortality under 1 year of age by color. |
|-----------------------|------------------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|--------|-----------------|---|
| July, 1887: | | | | | | | | | | | | | | | | | |
| White males | 6 | 4 | 10 | 4 | 3 | 8 | 4 | 4 | 3 | 6 | 3 | 4 | 2 | 2 | 63 | 117 | 19.50 |
| White females | 2 | 1 | 9 | 4 | 5 | 4 | 8 | 4 | 2 | 3 | 5 | 2 | 3 | 2 | 54 | | |
| Colored males | 3 | 2 | 4 | 5 | 3 | 5 | 3 | 3 | 0 | 7 | 4 | 1 | 4 | 0 | 44 | 102 | 13.53 |
| Colored females | 3 | 2 | 3 | 3 | 3 | 5 | 8 | 11 | 5 | 2 | 4 | 4 | 0 | 5 | 58 | | |
| Total | 14 | 9 | 26 | 16 | 14 | 22 | 23 | 22 | 10 | 18 | 16 | 11 | 9 | 9 | 219 | 219 | |
| August, 1887: | | | | | | | | | | | | | | | | | |
| White males | 1 | 1 | 4 | 2 | 4 | 3 | 3 | 2 | 5 | 2 | 2 | 2 | 3 | 1 | 35 | 62 | 10.34 |
| White females | 8 | 1 | 2 | 1 | 0 | 1 | 4 | 0 | 1 | 2 | 2 | 1 | 4 | 0 | 27 | | |
| Colored males | 4 | 1 | 3 | 4 | 2 | 2 | 0 | 4 | 2 | 1 | 3 | 2 | 2 | 1 | 31 | 71 | 9.41 |
| Colored females | 7 | 2 | 5 | 1 | 4 | 3 | 0 | 1 | 1 | 3 | 1 | 3 | 4 | 5 | 40 | | |
| Total | 20 | 5 | 14 | 8 | 10 | 9 | 7 | 7 | 9 | 8 | 8 | 8 | 13 | 7 | 133 | 133 | |
| September, 1887: | | | | | | | | | | | | | | | | | |
| White males | 2 | 4 | 3 | 4 | 2 | 2 | 3 | 0 | 0 | 3 | 2 | 0 | 1 | 1 | 27 | 54 | 9.00 |
| White females | 0 | 2 | 0 | 4 | 3 | 2 | 1 | 4 | 1 | 2 | 2 | 1 | 4 | 1 | 27 | | |
| Colored males | 4 | 2 | 5 | 3 | 0 | 2 | 1 | 3 | 0 | 2 | 2 | 3 | 1 | 1 | 29 | 65 | 8.64 |
| Colored females | 5 | 4 | 6 | 2 | 2 | 3 | 1 | 4 | 1 | 2 | 2 | 1 | 3 | 0 | 36 | | |
| Total | 11 | 12 | 14 | 13 | 7 | 9 | 6 | 11 | 2 | 9 | 8 | 5 | 9 | 3 | 119 | 119 | |
| October, 1887: | | | | | | | | | | | | | | | | | |
| White males | 3 | 5 | 7 | 0 | 1 | 1 | 4 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 25 | 33 | 5.50 |
| White females | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | | |
| Colored males | 4 | 4 | 2 | 2 | 3 | 3 | 1 | 1 | 2 | 2 | 0 | 1 | 2 | 1 | 28 | 52 | 6.90 |
| Colored females | 1 | 2 | 3 | 2 | 5 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 24 | | |
| Total | 9 | 12 | 12 | 6 | 9 | 8 | 7 | 5 | 3 | 5 | 2 | 2 | 4 | 1 | 85 | 85 | |
| November, 1887: | | | | | | | | | | | | | | | | | |
| White males | 1 | 3 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 11 | 22 | 3.66 |
| White females | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 11 | | |
| Colored males | 2 | 3 | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 17 | 38 | 5.04 |
| Colored females | 3 | 4 | 6 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 21 | | |
| Total | 6 | 12 | 18 | 4 | 3 | 3 | 3 | 0 | 0 | 3 | 1 | 3 | 2 | 2 | 60 | 60 | |
| December, 1887: | | | | | | | | | | | | | | | | | |
| White males | 3 | 5 | 4 | 1 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 24 | 37 | 6.16 |
| White females | 2 | 0 | 5 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 13 | | |
| Colored males | 2 | 2 | 2 | 2 | 4 | 3 | 0 | 1 | 1 | 0 | 0 | 3 | 0 | 1 | 21 | 43 | 5.70 |
| Colored females | 2 | 4 | 8 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 22 | | |
| Total | 9 | 11 | 19 | 6 | 7 | 8 | 3 | 3 | 1 | 1 | 1 | 3 | 4 | 4 | 80 | 80 | |
| January, 1888: | | | | | | | | | | | | | | | | | |
| White males | 3 | 2 | 2 | 0 | 2 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 2 | 0 | 17 | 29 | 4.83 |
| White females | 0 | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 12 | | |
| Colored males | 4 | 4 | 2 | 2 | 7 | 2 | 1 | 2 | 2 | 3 | 0 | 1 | 1 | 2 | 33 | 61 | 8.09 |
| Colored females | 2 | 5 | 3 | 1 | 5 | 1 | 2 | 3 | 3 | 1 | 1 | 0 | 1 | 0 | 28 | | |
| Total | 9 | 12 | 9 | 4 | 16 | 6 | 6 | 9 | 5 | 4 | 3 | 1 | 4 | 2 | 90 | 90 | |
| February, 1888: | | | | | | | | | | | | | | | | | |
| White males | 5 | 1 | 2 | 2 | 2 | 0 | 1 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 18 | 29 | 4.83 |
| White females | 1 | 3 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 11 | | |
| Colored males | 3 | 4 | 3 | 2 | 2 | 2 | 5 | 1 | 4 | 1 | 0 | 1 | 0 | 1 | 29 | 53 | 7.02 |
| Colored females | 4 | 6 | 2 | 2 | 5 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 24 | | |
| Total | 13 | 14 | 8 | 6 | 9 | 3 | 7 | 6 | 4 | 4 | 1 | 3 | 1 | 3 | 82 | 82 | |
| March, 1888: | | | | | | | | | | | | | | | | | |
| White males | 7 | 2 | 3 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 20 | 49 | 8.17 |
| White females | 4 | 5 | 2 | 4 | 1 | 3 | 3 | 1 | 2 | 1 | 1 | 0 | 0 | 2 | 29 | | |
| Colored males | 7 | 5 | 4 | 1 | 3 | 6 | 5 | 1 | 1 | 1 | 3 | 4 | 0 | 1 | 42 | 67 | 8.88 |
| Colored females | 3 | 1 | 5 | 1 | 4 | 3 | 2 | 0 | 3 | 0 | 1 | 0 | 2 | 0 | 25 | | |
| Total | 21 | 13 | 14 | 7 | 9 | 12 | 11 | 2 | 8 | 2 | 5 | 5 | 3 | 4 | 116 | 116 | |

TABLE III.—Deaths under one year of age, etc.—Continued.

| | 1 day and under. | 1 day to 1 week. | 1 week to 1 month. | 1 to 2 months. | 2 to 3 months. | 3 to 4 months. | 4 to 5 months. | 5 to 6 months. | 6 to 7 months. | 7 to 8 months. | 8 to 9 months. | 9 to 10 months. | 10 to 11 months. | 11 to 12 months. | Total. | Total by color. | Percentage to total mortality under 1 year of age by color. |
|---------------------|------------------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|--------|-----------------|---|
| April, 1888: | | | | | | | | | | | | | | | | | |
| White males | 2 | 2 | 4 | 2 | 3 | 3 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 22 | 37 | 6.17 |
| females | 0 | 1 | 2 | 2 | 0 | 1 | 2 | 1 | 3 | 1 | 0 | 2 | 0 | 0 | 15 | | |
| Colored males | 6 | 3 | 3 | 2 | 2 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 23 | 50 | 6.63 |
| females | 6 | 4 | 1 | 1 | 1 | 0 | 3 | 2 | 3 | 0 | 2 | 1 | 3 | 0 | 27 | | |
| Total | 14 | 10 | 10 | 7 | 6 | 7 | 7 | 4 | 7 | 3 | 3 | 4 | 5 | 0 | 87 | 87 | |
| May, 1888: | | | | | | | | | | | | | | | | | |
| White males | 4 | 0 | 4 | 2 | 0 | 1 | 1 | 0 | 2 | 1 | 2 | 1 | 0 | 0 | 18 | 31 | 5.17 |
| females | 2 | 2 | 0 | 2 | 1 | 1 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 13 | | |
| Colored males | 3 | 7 | 4 | 1 | 1 | 2 | 0 | 1 | 4 | 1 | 3 | 2 | 0 | 0 | 29 | 51 | 6.76 |
| females | 3 | 5 | 3 | 1 | 1 | 3 | 1 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 22 | | |
| Total | 12 | 14 | 11 | 6 | 3 | 7 | 4 | 2 | 7 | 4 | 7 | 3 | 2 | 0 | 82 | 82 | |
| June, 1888: | | | | | | | | | | | | | | | | | |
| White males | 4 | 1 | 3 | 3 | 0 | 8 | 4 | 6 | 3 | 1 | 3 | 1 | 1 | 2 | 40 | 100 | 16.67 |
| females | 3 | 5 | 4 | 6 | 5 | 4 | 7 | 6 | 4 | 8 | 1 | 3 | 3 | 1 | 60 | | |
| Colored males | 4 | 5 | 2 | 2 | 9 | 4 | 2 | 6 | 7 | 1 | 2 | 1 | 2 | 1 | 48 | 102 | 13.33 |
| females | 8 | 5 | 2 | 1 | 6 | 4 | 9 | 6 | 2 | 3 | 3 | 2 | 1 | 2 | 54 | | |
| Total | 19 | 16 | 11 | 12 | 20 | 20 | 22 | 24 | 16 | 13 | 9 | 7 | 7 | 6 | 202 | 202 | |

RECAPITULATION.

| | 1 day and under. | 1 day to 1 week. | 1 week to 1 month. | 1 to 2 months. | 2 to 3 months. | 3 to 4 months. | 4 to 5 months. | 5 to 6 months. | 6 to 7 months. |
|--|------------------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Grand total | 157 | 140 | 166 | 95 | 113 | 114 | 106 | 95 | 72 |
| Per cent. to total mortality under 1 year .. | 11.58 | 10.33 | 12.26 | 7.00 | 8.33 | 8.40 | 7.82 | 7.00 | 5.31 |
| Total white males | 41 | 30 | 48 | 21 | 22 | 31 | 24 | 21 | 15 |
| Per cent. to total mortality under 1 year .. | 12.81 | 9.37 | 15.00 | 6.56 | 6.88 | 9.69 | 7.50 | 6.56 | 4.69 |
| Total white females | 23 | 24 | 31 | 29 | 17 | 19 | 33 | 19 | 14 |
| Per cent. to total mortality under 1 year .. | 8.19 | 8.58 | 11.07 | 10.36 | 6.07 | 6.79 | 11.79 | 6.79 | 5.00 |
| Total colored males | 46 | 42 | 40 | 27 | 36 | 35 | 20 | 23 | 24 |
| Per cent. to total mortality under 1 year .. | 12.30 | 11.23 | 10.70 | 7.21 | 9.62 | 9.36 | 5.35 | 6.16 | 6.42 |
| Total colored females | 47 | 44 | 47 | 18 | 38 | 29 | 29 | 32 | 19 |
| Per cent. to total mortality under 1 year .. | 12.37 | 11.31 | 12.37 | 4.74 | 10.00 | 7.63 | 7.63 | 8.42 | 5.00 |

| | 7 to 8 months. | 8 to 9 months. | 9 to 10 months. | 10 to 11 months. | 11 to 12 months. | Total. | Total by color. | Percentage to total mortality under 1 year of age by color. |
|--|----------------|----------------|-----------------|------------------|------------------|--------|-----------------|---|
| Grand total | 74 | 64 | 55 | 63 | 41 | 1,355 | | |
| Per cent. to total mortality under 1 year .. | 5.46 | 4.73 | 4.09 | 4.66 | 3.03 | 100.00 | | |
| Total white males | 18 | 14 | 12 | 13 | 10 | 320 | 600 | 44.28 |
| Per cent. to total mortality under 1 year .. | 5.63 | 4.38 | 3.75 | 4.06 | 3.12 | 100.00 | | |
| Total white females | 21 | 14 | 10 | 18 | 8 | 28 | | |
| Per cent. to total mortality under 1 year .. | 7.50 | 5.00 | 3.57 | 6.43 | 2.86 | 100.00 | 755 | 55.72 |
| Total colored males | 20 | 17 | 20 | 14 | 10 | 374 | | |
| Per cent. to total mortality under 1 year .. | 5.35 | 4.54 | 5.35 | 3.74 | 2.67 | 100.00 | | |
| Total colored females | 15 | 19 | 13 | 18 | 13 | 381 | | |
| Per cent. to total mortality under 1 year .. | 3.95 | 5.00 | 3.42 | 4.74 | 3.42 | 100.00 | | |

TABLE IV.—DEATHS.—Number of deaths of children under five years of age, from the principal diseases of children, year ending June 30, 1888.

| Diseases. | White. | | Colored. | |
|--|---------|---|----------|--|
| | Deaths. | Percentage to total mortality of whites under 5 years of age. | Deaths. | Percentage to total mortality of colored under 5 years of age. |
| Measles..... | 78 | 8.696 | 52 | 5.005 |
| Croup..... | 19 | 2.118 | 4 | .385 |
| Diphtheria..... | 24 | 2.673 | 4 | .385 |
| Scarlet fever..... | 7 | .777 | ..... | ..... |
| Typho-malarial fever..... | 3 | .334 | ..... | ..... |
| Diarrheal diseases, except cholera infantum..... | 56 | 6.244 | 63 | 6.064 |
| Whooping cough..... | 9 | 1.002 | 8 | .770 |
| Inanition..... | 54 | 6.001 | 68 | 6.545 |
| Scrofula, tuberculosis, marasmus and tabes, hydrocephalus and tubercular meningitis..... | 78 | 8.695 | 85 | 8.181 |
| Phthisis pulmonalis..... | 13 | 1.450 | 35 | 3.368 |
| Acute diseases of the brain..... | 60 | 6.690 | 39 | 3.754 |
| Convulsions..... | 43 | 4.794 | 73 | 7.026 |
| Trismus nascentium..... | 20 | 2.229 | 47 | 4.523 |
| Bronchitis, and congestion of the lungs..... | 27 | 3.010 | 70 | 6.738 |
| Pneumonia..... | 41 | 4.571 | 83 | 7.988 |
| Diseases of the digestive organs..... | 98 | 10.927 | 73 | 7.026 |
| Developmental diseases of children..... | 117 | 13.045 | 157 | 15.111 |
| Accidents and negligence..... | 8 | .891 | 23 | 2.243 |
| All others..... | 142 | 15.833 | 155 | 14.918 |
| Total..... | 897 | 100.000 | 1,039 | 100.000 |
| Percentage to total mortality, by color..... | ..... | 32.29 | ..... | 45.93 |
| Annual death-rate, by color..... | ..... | 5.98 | ..... | 13.85 |

TABLE V.—Number dying, seventy years of age and over, during the year ending June 30, 1888.

| White. | | Colored. | | Total. | White. | | Colored. | | Total. | | |
|---------------|-------|----------|-------|--------|---------|--------------------|----------|---------|--------|-------|-------|
| Age. | Male. | Female. | Male. | | Female. | Age. | Male. | Female. | | | |
| 70 years..... | 20 | 14 | 15 | 17 | 66 | 87 years..... | 4 | 7 | 2 | 4 | 17 |
| 71 years..... | 13 | 5 | 2 | 3 | 23 | 88 years..... | 2 | 1 | 2 | 2 | 7 |
| 72 years..... | 15 | 16 | ..... | 5 | 36 | 89 years..... | 1 | 4 | 2 | 1 | 8 |
| 73 years..... | 9 | 14 | 6 | 6 | 35 | 90 years..... | 3 | 3 | 3 | 4 | 13 |
| 74 years..... | 13 | 17 | ..... | 1 | 31 | 91 years..... | ..... | 2 | ..... | 1 | 3 |
| 75 years..... | 10 | 21 | 12 | 10 | 53 | 92 years..... | 1 | ..... | 3 | ..... | 4 |
| 76 years..... | 14 | 12 | 6 | 5 | 37 | 93 years..... | ..... | ..... | ..... | ..... | ..... |
| 77 years..... | 10 | 9 | 6 | 2 | 27 | 94 years..... | 1 | 1 | ..... | 1 | 3 |
| 78 years..... | 16 | 15 | 2 | 9 | 42 | 95 years..... | ..... | 1 | 1 | 3 | 5 |
| 79 years..... | 10 | 14 | 2 | 3 | 29 | 96 years..... | 1 | 2 | ..... | ..... | 3 |
| 80 years..... | 4 | 10 | 7 | 12 | 33 | 97 years..... | ..... | 1 | ..... | ..... | 1 |
| 81 years..... | 5 | 5 | 1 | 2 | 13 | 98 years..... | ..... | ..... | ..... | ..... | ..... |
| 82 years..... | 4 | 3 | 1 | 4 | 12 | 99 years..... | ..... | ..... | ..... | ..... | ..... |
| 83 years..... | 2 | 6 | 1 | 4 | 13 | 100 years and over | 1 | 2 | 1 | 1 | 5 |
| 84 years..... | 6 | 7 | 3 | 3 | 19 | Total..... | 170 | 202 | 79 | 116 | 567 |
| 85 years..... | 4 | 5 | ..... | 9 | 18 | | | | | | |
| 86 years..... | 1 | 5 | 1 | 4 | 11 | | | | | | |

TABLE VI.—*Number and average ages in years of decedents dying from eighteen different diseases and from suicide during the year ending June 30, 1888.*

| Diseases. | White. | | | | Colored. | | | |
|------------------------------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
| | Male. | | Female. | | Male. | | Female. | |
| | Total deaths. | Years. | Total deaths. | Years. | Total deaths. | Years. | Total deaths. | Years. |
| | | | | | | | | |
| Consumption | 164 | 37 | 186 | 34 | 129 | 31 | 223 | 26 |
| Typhoid fever | 47 | 29 | 48 | 24 | 37 | 21 | 36 | 23 |
| Apoplexy | 66 | 55 | 30 | 66 | 19 | 56 | 23 | 55 |
| In-anity | 77 | 55 | 16 | 54 | 13 | 43 | 11 | 47 |
| Softening of the brain | 4 | 53 | 5 | 76 | 1 | 75 | | |
| Paralysis | 13 | 66 | 14 | 64 | 12 | 49 | 9 | 61 |
| Cancer | 27 | 57 | 47 | 57 | 4 | 51 | 22 | 45 |
| Epilepsy | 6 | 24 | 6 | 35 | 4 | 56 | 2 | 32 |
| Diseases of the heart | 81 | 55 | 68 | 54 | 58 | 52 | 66 | 51 |
| Bright's disease | 18 | 53 | 17 | 56 | 10 | 48 | 15 | 36 |
| Rheumatism | 17 | 38 | 18 | 50 | 5 | 49 | 13 | 37 |
| Aneurisms | 5 | 32 | 2 | 61 | 4 | 55 | 2 | 54 |
| Angina pectoris | 1 | 51 | 2 | 71 | | | 2 | 51 |
| Gastritis | 18 | 30 | 15 | 37 | 2 | 28 | 6 | 20 |
| Cirrhosis of liver | 9 | 56 | 4 | 50 | 2 | 52 | 1 | 65 |
| Dropsies | 8 | 27 | 7 | 31 | 6 | 26 | 10 | 27 |
| Diabetes | 2 | 37 | 3 | 62 | 1 | 60 | 1 | 35 |
| Hernia | 2 | 63 | 1 | 64 | 1 | 45 | | |
| Suicides | 13 | 41 | 5 | 36 | | | | |

TABLE VII.—DEATHS.—*Number of deaths occurring in hospitals and other public institutions during the year ending June 30, 1888.*

| Hospitals, etc. | White. | | Colored. | | Total. |
|---|--------|---------|----------|---------|--------|
| | Male. | Female. | Male. | Female. | |
| Almshouse | 1 | | | | 1 |
| Barnes Hospital, Soldiers' Home | 34 | | 2 | | 36 |
| Columbia Hospital | 4 | 4 | 7 | 10 | 25 |
| Children's Hospital | 2 | 3 | 13 | 13 | 31 |
| Emergency Hospital | 3 | | 2 | | 5 |
| Epiphany Church Home | | 1 | | | 1 |
| Freedmen's Hospital | 25 | 7 | 119 | 94 | 245 |
| Garfield Memorial Hospital | 11 | 12 | | | 23 |
| Government Hospital for the Insane | 81 | 14 | 15 | 11 | 121 |
| Home for Destitute Colored Children | | | 1 | 1 | 2 |
| Home for the Aged | 14 | 11 | 4 | 7 | 36 |
| National Homœopathic Hospital | 2 | 2 | | | 4 |
| Naval Hospital (U. S. Navy) | 5 | | | | 5 |
| Police Station, third precinct | | | 1 | | 1 |
| Providence Hospital | 70 | 33 | 7 | 3 | 113 |
| Patrol wagon | | | 2 | | 2 |
| St. Ann's Infant Asylum | 16 | 22 | 17 | 17 | 72 |
| St. Vincent's Asylum | | 1 | | | 1 |
| Soldiers' Home | 3 | | | | 3 |
| United States Marine headquarters | | 1 | | | 1 |
| Washington Asylum Hospital | 4 | 10 | 24 | 28 | 66 |
| Washington Asylum for Foundlings | 10 | 16 | | | 66 |
| Washington Barracks (U. S. Army) | 1 | 1 | | | 2 |
| Total | 286 | 138 | 214 | 184 | 822 |

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TABLE VIII.—DEATHS.—Deaths and average ages, year ending June 30, 1888.

WHITE MALES.

| Months. | All ages. | | | | 5 years and over. | | | | 20 years and over. | | | | 40 years and over. | | | |
|------------------------|---------------|---------------|---------|-------|-------------------|---------------|---------|-------|--------------------|---------------|---------|-------|--------------------|---------------|---------|-------|
| | Total deaths. | Average ages. | | | Total deaths. | Average ages. | | | Total deaths. | Average ages. | | | Total deaths. | Average ages. | | |
| | | Years. | Months. | Days. | | Years. | Months. | Days. | | Years. | Months. | Days. | | Years. | Months. | Days. |
| 1887. | | | | | | | | | | | | | | | | |
| July | 181 | 27 | 2 | 17 | 105 | 46 | 3 | 19 | 93 | 50 | 8 | 10 | 66 | 59 | 6 | 7 |
| August | 119 | 26 | 11 | 10 | 72 | 44 | 0 | 17 | 60 | 50 | 5 | 26 | 42 | 58 | 6 | 22 |
| September | 108 | 28 | 1 | 13 | 67 | 44 | 7 | 25 | 60 | 44 | 5 | 14 | 39 | 58 | 3 | 16 |
| October | 120 | 34 | 3 | 18 | 86 | 47 | 7 | 15 | 76 | 52 | 6 | 24 | 61 | 58 | 4 | 8 |
| November | 88 | 39 | 2 | 17 | 71 | 48 | 4 | 25 | 66 | 51 | 4 | 12 | 44 | 62 | 11 | 10 |
| December | 114 | 34 | 5 | 26 | 76 | 51 | 1 | 8 | 72 | 53 | 5 | 5 | 56 | 59 | 8 | 22 |
| 1888. | | | | | | | | | | | | | | | | |
| January | 113 | 35 | 7 | 29 | 86 | 46 | 5 | 26 | 78 | 49 | 10 | 11 | 53 | 59 | 9 | 21 |
| February | 127 | 36 | 8 | 22 | 87 | 53 | 0 | 10 | 83 | 54 | 10 | 16 | 68 | 60 | 0 | 22 |
| March | 159 | 35 | 4 | 14 | 116 | 48 | 0 | 24 | 100 | 53 | 11 | 9 | 74 | 60 | 10 | 25 |
| April | 118 | 35 | 8 | 27 | 83 | 50 | 6 | 1 | 74 | 54 | 11 | 12 | 58 | 61 | 5 | 26 |
| May | 96 | 37 | 5 | 24 | 70 | 50 | 11 | 1 | 62 | 56 | 2 | 18 | 48 | 64 | 5 | 27 |
| June | 113 | 25 | 1 | 10 | 59 | 47 | 4 | 21 | 51 | 52 | 11 | 21 | 38 | 60 | 10 | 13 |
| Totals and means | 1,456 | 33 | 0 | 3 | 978 | 48 | 2 | 16 | 875 | 52 | 9 | 15 | 651 | 60 | 6 | 11 |

WHITE FEMALES.

| | | | | | | | | | | | | | | | | |
|------------------------|-------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
| 1887. | | | | | | | | | | | | | | | | |
| July | 129 | 27 | 10 | 24 | 68 | 52 | 5 | 13 | 65 | 54 | 4 | 9 | 45 | 65 | 4 | 26 |
| August | 105 | 29 | 0 | 10 | 69 | 43 | 9 | 21 | 51 | 53 | 11 | 12 | 35 | 66 | 1 | 1 |
| September | 125 | 34 | 0 | 24 | 87 | 48 | 6 | 2 | 81 | 51 | 4 | 3 | 52 | 64 | 2 | 16 |
| October | 97 | 38 | 11 | 6 | 80 | 46 | 11 | 5 | 67 | 53 | 8 | 19 | 42 | 64 | 11 | 15 |
| November | 87 | 35 | 5 | 13 | 67 | 45 | 8 | 12 | 61 | 49 | 0 | 28 | 35 | 62 | 5 | 28 |
| December | 98 | 36 | 6 | 6 | 79 | 45 | 1 | 3 | 67 | 51 | 7 | 2 | 45 | 62 | 5 | 18 |
| 1888. | | | | | | | | | | | | | | | | |
| January | 108 | 41 | 8 | 25 | 86 | 52 | 2 | 5 | 76 | 57 | 3 | 5 | 61 | 63 | 11 | 4 |
| February | 124 | 38 | 6 | 18 | 97 | 48 | 10 | 2 | 86 | 53 | 8 | 28 | 59 | 64 | 2 | 3 |
| March | 133 | 32 | 1 | 26 | 81 | 52 | 1 | 23 | 76 | 54 | 8 | 7 | 50 | 67 | 8 | 0 |
| April | 93 | 31 | 9 | 23 | 67 | 43 | 8 | 2 | 58 | 48 | 6 | 20 | 36 | 61 | 9 | 25 |
| May | 89 | 35 | 10 | 5 | 61 | 51 | 8 | 11 | 55 | 55 | 7 | 20 | 40 | 65 | 1 | 23 |
| June | 134 | 19 | 10 | 18 | 59 | 44 | 4 | 1 | 48 | 51 | 4 | 20 | 30 | 64 | 2 | 28 |
| Totals and means | 1,322 | 33 | 5 | 26 | 898 | 47 | 11 | 11 | 791 | 52 | 11 | 9 | 530 | 64 | 4 | 18 |

COLORED MALES.

| | | | | | | | | | | | | | | | | |
|------------------------|-------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
| 1887. | | | | | | | | | | | | | | | | |
| July | 111 | 22 | 4 | 23 | 56 | 43 | 9 | 14 | 45 | 51 | 4 | 8 | 31 | 61 | 6 | 6 |
| August | 81 | 22 | 8 | 11 | 43 | 42 | 3 | 29 | 32 | 52 | 1 | 15 | 23 | 62 | 4 | 5 |
| September | 93 | 26 | 7 | 1 | 53 | 46 | 1 | 5 | 44 | 52 | 9 | 18 | 31 | 63 | 1 | 5 |
| October | 66 | 23 | 8 | 10 | 35 | 44 | 2 | 17 | 30 | 49 | 2 | 3 | 21 | 58 | 2 | 26 |
| November | 71 | 25 | 7 | 15 | 45 | 40 | 0 | 0 | 37 | 46 | 3 | 14 | 25 | 55 | 1 | 27 |
| December | 62 | 22 | 9 | 20 | 30 | 46 | 2 | 13 | 25 | 53 | 0 | 22 | 19 | 60 | 1 | 17 |
| 1888. | | | | | | | | | | | | | | | | |
| January | 87 | 24 | 11 | 1 | 42 | 50 | 7 | 14 | 38 | 55 | 0 | 9 | 30 | 60 | 1 | 8 |
| February | 90 | 22 | 5 | 13 | 42 | 46 | 10 | 29 | 40 | 48 | 10 | 2 | 28 | 58 | 0 | 15 |
| March | 115 | 18 | 2 | 15 | 53 | 39 | 4 | 10 | 40 | 48 | 1 | 1 | 25 | 59 | 3 | 13 |
| April | 84 | 21 | 5 | 22 | 47 | 37 | 6 | 13 | 39 | 42 | 11 | 11 | 20 | 56 | 9 | 0 |
| May | 79 | 16 | 8 | 12 | 37 | 34 | 12 | 23 | 27 | 42 | 11 | 6 | 15 | 56 | 10 | 12 |
| June | 110 | 21 | 2 | 8 | 53 | 43 | 6 | 1 | 43 | 50 | 10 | 28 | 33 | 58 | 0 | 13 |
| Totals and means | 1,049 | 22 | 4 | 22 | 536 | 42 | 11 | 19 | 440 | 49 | 5 | 19 | 301 | 59 | 1 | 18 |

TABLE VIII.—DEATHS.—Deaths and average ages, year ending June 30, 1888—Cont'd.

COLORED FEMALES.

| Months. | All ages. | | | | 5 years and over. | | | | 20 years and over. | | | | 40 years and over. | | | |
|------------------------|---------------|---------------|---------|-------|-------------------|---------------|---------|-------|--------------------|---------------|---------|-------|--------------------|---------------|---------|-------|
| | Total deaths. | Average ages. | | | Total deaths. | Average ages. | | | Total deaths. | Average ages. | | | Total deaths. | Average ages. | | |
| | | Years. | Months. | Days. | | Years. | Months. | Days. | | Years. | Months. | Days. | | Years. | Months. | Days. |
| 1887. | | | | | | | | | | | | | | | | |
| July | 124 | 19 | 3 | 19 | 61 | 38 | 8 | 7 | 47 | 46 | 4 | 5 | 25 | 63 | 4 | 4 |
| August | 107 | 21 | 1 | 3 | 53 | 41 | 10 | 7 | 43 | 45 | 6 | 15 | 21 | 69 | 2 | 9 |
| September | 107 | 23 | 6 | 9 | 61 | 40 | 9 | 19 | 42 | 48 | 1 | 21 | 29 | 60 | 10 | 23 |
| October | 75 | 26 | 2 | 23 | 45 | 43 | 2 | 5 | 38 | 48 | 6 | 14 | 21 | 64 | 3 | 27 |
| November | 97 | 28 | 9 | 27 | 67 | 41 | 3 | 20 | 54 | 47 | 10 | 26 | 29 | 66 | 2 | 7 |
| December | 87 | 25 | 0 | 24 | 49 | 43 | 7 | 12 | 43 | 47 | 6 | 28 | 26 | 60 | 0 | 14 |
| 1888. | | | | | | | | | | | | | | | | |
| January | 100 | 20 | 3 | 7 | 49 | 40 | 0 | 6 | 38 | 48 | 1 | 29 | 24 | 58 | 11 | 0 |
| February | 92 | 22 | 3 | 27 | 52 | 38 | 8 | 9 | 40 | 47 | 5 | 0 | 23 | 62 | 4 | 15 |
| March | 121 | 25 | 2 | 26 | 78 | 38 | 7 | 13 | 63 | 45 | 1 | 14 | 29 | 63 | 9 | 18 |
| April | 112 | 25 | 4 | 4 | 72 | 38 | 5 | 19 | 58 | 44 | 3 | 14 | 18 | 60 | 11 | 4 |
| May | 81 | 25 | 8 | 5 | 51 | 41 | 3 | 7 | 38 | 50 | 11 | 15 | 27 | 59 | 10 | 21 |
| June | 108 | 18 | 6 | 12 | 48 | 41 | 3 | 20 | 37 | 49 | 5 | 21 | 21 | 65 | 4 | 8 |
| Totals and means | 1,213 | 23 | 5 | 13 | 686 | 40 | 7 | 24 | 547 | 47 | 8 | 14 | 303 | 62 | 3 | 8 |

RECAPITULATION.

| | | All ages. | | | | 5 years and over. | | | | 20 years and over. | | | | 40 years and over. | | | |
|-------------------|----------------|---------------|--------|---------|-------|-------------------|--------|---------|-------|--------------------|--------|---------|-------|--------------------|--------|---------|-------|
| | | Total deaths. | Years. | Months. | Days. | Total deaths. | Years. | Months. | Days. | Total deaths. | Years. | Months. | Days. | Total deaths. | Years. | Months. | Days. |
| White | { Male | 1,456 | 23 | 0 | 3 | 978 | 48 | 2 | 16 | 875 | 52 | 9 | 15 | 651 | 60 | 6 | 11 |
| | { Female | 1,352 | 23 | 5 | 26 | 898 | 47 | 11 | 11 | 791 | 52 | 11 | 9 | 580 | 64 | 4 | 18 |
| Total | | 2,778 | 23 | 3 | 15 | 1,876 | 48 | 0 | 28 | 1,666 | 52 | 10 | 12 | 1,181 | 62 | 5 | 14 |
| Colored | { Male | 1,049 | 23 | 4 | 22 | 536 | 42 | 11 | 19 | 440 | 49 | 5 | 19 | 301 | 59 | 1 | 18 |
| | { Female | 1,213 | 23 | 5 | 13 | 686 | 40 | 7 | 24 | 547 | 47 | 8 | 14 | 303 | 62 | 3 | 8 |
| Total | | 2,262 | 22 | 11 | 3 | 1,222 | 41 | 9 | 22 | 987 | 48 | 8 | 2 | 604 | 60 | 8 | 13 |
| White | | 2,778 | 23 | 2 | 28 | 1,876 | 48 | 0 | 28 | 1,666 | 52 | 10 | 12 | 1,181 | 62 | 5 | 14 |
| Colored | | 2,262 | 22 | 11 | 3 | 1,222 | 41 | 9 | 22 | 987 | 48 | 8 | 2 | 604 | 60 | 8 | 13 |
| Grand total | | 5,040 | 28 | 1 | 0 | 3,098 | 44 | 11 | 10 | 2,653 | 50 | 9 | 7 | 1,785 | 61 | 6 | 28 |

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TABLE IX.—*Cemeteries and decedents buried in each, including those transported outside of the District of Columbia, for the year ending June 30, 1888.*

| Cemeteries. | White. | Colored. | Total. |
|---|--------|----------|--------|
| Adas Israel | 3 | ..... | 3 |
| Addison's Chapel Cemetery ..... | ..... | 2 | 2 |
| Baptist Cemetery ..... | ..... | 9 | 9 |
| Betta's Farm burial ground ..... | ..... | 2 | 2 |
| Brightwood burial ground ..... | ..... | 2 | 2 |
| Benning's burial ground | 1 | 2 | 3 |
| Brook's burial ground ..... | ..... | 1 | 1 |
| Carroll Chapel burial ground | 2 | ..... | 2 |
| Christian burial ground ..... | ..... | 1 | 1 |
| Congressional Cemetery | 426 | 1 | 427 |
| Convent Cemetery, of Georgetown | 4 | ..... | 4 |
| Davis's burial ground ..... | ..... | 1 | 1 |
| Friendship Farm burial ground | 1 | ..... | 1 |
| Georgetown College Cemetery | 2 | ..... | 2 |
| Glenwood Cemetery | 324 | ..... | 324 |
| Good Hope Cemetery ..... | ..... | 6 | 6 |
| Graceland Cemetery | 102 | 319 | 421 |
| Harmonial Cemetery | 2 | 379 | 381 |
| Hillsdale Cemetery | 1 | 21 | 22 |
| Holyrood Cemetery | 131 | 13 | 144 |
| Honesty's burial ground ..... | ..... | 1 | 1 |
| Hospital Cemetery of Government Insane Asylum | 65 | 15 | 80 |
| Jones's Chapel ..... | ..... | 9 | 9 |
| Macedonian Cemetery ..... | ..... | 6 | 6 |
| Medical Museum (Army) | 1 | 6 | 7 |
| Methodist, of Tennallytown | 50 | ..... | 50 |
| Mount Olivet | 611 | 208 | 819 |
| Mount Pleasant | 2 | 471 | 473 |
| Mount Zion ..... | ..... | 142 | 142 |
| Moore's Cemetery, of Hillsdale ..... | ..... | 21 | 21 |
| National Cemetery at Soldiers' Home | 39 | 2 | 41 |
| Notre Dame | 1 | ..... | 1 |
| Oak Hill Cemetery | 190 | ..... | 190 |
| Outside of the District of Columbia | 406 | 128 | 534 |
| Old Methodist | 1 | ..... | 1 |
| Payne's, at Benning's | 1 | 132 | 133 |
| Presbyterian, at Georgetown | 1 | ..... | 1 |
| Potter's Field | 60 | 331 | 391 |
| Piney Grove | 1 | ..... | 1 |
| Prospect Hill | 132 | ..... | 132 |
| Peterson's burial ground ..... | ..... | 1 | 1 |
| Rock Creek Cemetery | 149 | ..... | 149 |
| St. Mary's (German) | 44 | ..... | 44 |
| Smith's, of Hamilton Road ..... | ..... | 4 | 4 |
| Washington Hebrew Cemetery, of Oxon Hill | 21 | ..... | 21 |
| Washington Asylum burial ground | 4 | | 4 |
| Youngmen's burial ground | | 26 | 26 |
| Total | 2,778 | 2,262 | 5,040 |

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TABLE X.—Showing the daily mortality divided under twenty-eight heads, classified by color, divided under thirteen heads.

JULY, 1887.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|-----------|----------|--|--|---------------------------------------|--|---|----|---|----------------|-----------------------|-----------------|--------------|------------|-------------|--------------------------|-------------------|-------------------------------------|-------------|-------------------------------|---------------------|------------------------|---------------|
| | | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | | | | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths by color. | Total deaths. |
| | | | Accidents and negligence. | Homicide. | Suicide. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under, less those by violence. | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1..... | W. | 6 | | | | 2 | 5 | | | | | | | | | | | 1 | | | | 4 | 8 | 15 | | |
| 2..... | W. | 16 | | | | 3 | 12 | 1 | 1 | | | | | | | | | 3 | | 1 | | 7 | 16 | 24 | | |
| 3..... | W. | 9 | | | | 1 | 4 | | | | | | | | | | | | | | | 8 | 9 | 18 | | |
| 4..... | W. | 9 | | | | 2 | 4 | 1 | 1 | | | | | | | | | | | | | 9 | 9 | 15 | | |
| 5..... | W. | 9 | 1 | | | 1 | 7 | | | | | | | | | | | 1 | 1 | | | 9 | 6 | 19 | | |
| 6..... | W. | 5 | | | | 1 | 3 | | | | | | | | | | | 2 | | | | 10 | 9 | 16 | | |
| 7..... | W. | 9 | | 1 | | 4 | 1 | | | | | | | | | | | 1 | 1 | | | 9 | 7 | 16 | | |
| 8..... | W. | 8 | 1 | | | 2 | 4 | 1 | | | | | | | | | | 1 | 1 | | | 9 | 7 | 16 | | |
| 9..... | W. | 7 | | | | | 4 | | | | | | | | | | | | | | | 7 | 6 | 11 | | |
| 10..... | W. | 6 | | | | 1 | 3 | | | | | | | | | | | 1 | | | | 5 | 5 | 11 | | |
| 11..... | W. | 5 | | | | 2 | 4 | | | | | | | | | | | | | | | 6 | 6 | 13 | | |
| 12..... | W. | 6 | | | | 2 | 4 | | | | | | | | | | | 1 | 1 | | | 7 | 7 | 13 | | |
| 13..... | W. | 7 | | | | 2 | 4 | | | | | | | | | | | | | | | 7 | 7 | 13 | | |
| 14..... | W. | 10 | | | | 3 | 6 | 1 | 1 | | | | | | | | | 6 | 1 | | | 10 | 9 | 19 | | |
| 15..... | W. | 9 | | | 1 | 1 | 3 | | | | | | | | | | | 2 | | | | 9 | 7 | 8 | | |
| 16..... | W. | 6 | | | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | 7 | 1 | 8 | | |
| 17..... | W. | 7 | | | | 1 | 5 | 1 | 1 | | | | | | | | | 2 | | | | 7 | 1 | 12 | | |
| 18..... | W. | 5 | | | | 1 | 3 | 2 | 2 | | | | | | | | | | | | | 5 | 5 | 12 | | |
| 19..... | W. | 2 | | | | 2 | 2 | | | | | | | | | | | | | | | 2 | 2 | 13 | | |
| 20..... | W. | 11 | | | | 2 | 4 | | | | | | | | | | | 3 | 1 | | | 11 | 11 | 13 | | |
| 21..... | W. | 8 | | 1 | | 2 | 4 | | | | | | | | | | | 1 | | | | 9 | 9 | 14 | | |
| 22..... | W. | 5 | | | | 1 | 4 | | | | | | | | | | | | | | | 5 | 5 | 14 | | |
| 23..... | W. | 11 | | | | 4 | 5 | | | | | | | | | | | | | | | 11 | 9 | 20 | | |
| 24..... | W. | 9 | | | | 1 | 4 | 1 | 1 | | | | | | | | | 1 | | | | 9 | 9 | 20 | | |
| 25..... | W. | 18 | | | | 6 | 2 | | | | | | | | | | | 4 | 2 | 1 | | 18 | 18 | 26 | | |
| 26..... | W. | 8 | | | | 1 | 7 | | | | | | | | | | | | | | | 8 | 8 | 26 | | |
| 27..... | W. | 14 | 2 | | | 3 | 7 | 1 | 1 | | | | | | | | | 2 | 1 | 1 | | 16 | 16 | 27 | | |
| 28..... | W. | 11 | | | | 2 | 8 | 1 | | | | | | | | | | 1 | 1 | 1 | | 11 | 11 | 27 | | |
| 29..... | W. | 16 | 2 | | | 2 | 7 | | | | | | | | | | | 4 | | | | 18 | 18 | 36 | | |
| 30..... | W. | 17 | 1 | | | 2 | 4 | | | | | | | | | | | 5 | 3 | | | 18 | 18 | 36 | | |
| 31..... | W. | 22 | | | | 3 | 8 | | | | | | | | | | | 9 | | | | 22 | 7 | 29 | | |
| 1..... | W. | 7 | | | | 2 | 3 | | | | | | | | | | | 2 | 1 | | | 15 | 6 | 21 | | |
| 2..... | W. | 5 | 1 | | | 3 | 4 | | | | | | | | | | | | | | | 5 | 6 | 21 | | |
| 3..... | W. | 5 | | | | 2 | 3 | | | | | | | | | | | | | | | 5 | 5 | 10 | | |
| 4..... | W. | 4 | 1 | | | 1 | 3 | | | | | | | | | | | 1 | | | | 5 | 5 | 10 | | |
| 5..... | W. | 10 | | | | 1 | 5 | | | | | | | | | | | | | | | 10 | 6 | 16 | | |
| 6..... | W. | 6 | | | | 1 | 3 | | | | | | | | | | | | | | | 6 | 6 | 16 | | |
| 7..... | W. | 8 | | | | 1 | 6 | 1 | 1 | | | | | | | | | | | | | 8 | 8 | 19 | | |
| 8..... | W. | 10 | 1 | | | 4 | 2 | 1 | 1 | | | | | | | | | | | | | 11 | 5 | 12 | | |
| 9..... | W. | 5 | | | | | 4 | 1 | | | | | | | | | | | | | | 5 | 7 | 12 | | |
| 10..... | W. | 6 | 1 | | | 1 | 5 | | | | | | | | | | | | | | | 6 | 6 | 12 | | |
| 11..... | W. | 3 | | | | 1 | 3 | | | | | | | | | | | | | | | 3 | 3 | 8 | | |
| 12..... | W. | 5 | | | | 2 | 4 | | | | | | | | | | | | | | | 5 | 6 | 12 | | |
| 13..... | W. | 6 | | | | 1 | 4 | | | | | | | | | | | | | | | 6 | 6 | 12 | | |
| 14..... | W. | 5 | 1 | | | 1 | 5 | 1 | 1 | | | | | | | | | | | | | 11 | 5 | 16 | | |
| 15..... | W. | 9 | 2 | | | 1 | 3 | | | | | | | | | | | | | | | 9 | 8 | 18 | | |
| 16..... | W. | 5 | | | | 1 | 2 | | | | | | | | | | | | | | | 5 | 5 | 16 | | |
| 17..... | W. | 8 | | | | 5 | 2 | 1 | 1 | | | | | | | | | | | | | 8 | 8 | 18 | | |
| 18..... | W. | 9 | | 1 | | | 3 | | | | | | | | | | | | | | | 10 | 8 | 17 | | |
| 19..... | W. | 8 | | | | 1 | 1 | 2 | 1 | | | | | | | | | | | | | 8 | 9 | 17 | | |
| 20..... | W. | 9 | | | | 3 | 5 | 1 | 1 | | | | | | | | | | | | | 11 | 9 | 20 | | |
| 21..... | W. | 11 | | | | | 2 | | | | | | | | | | | | | | | 9 | 9 | 24 | | |
| 22..... | W. | 9 | | | | 2 | 3 | | | | | | | | | | | | | | | 15 | 9 | 24 | | |
| 23..... | W. | 15 | | | | | 5 | 2 | 1 | | | | | | | | | | | | | 9 | 9 | 17 | | |
| 24..... | W. | 9 | | | | 1 | 3 | 2 | 1 | | | | | | | | | | | | | 9 | 8 | 17 | | |
| 25..... | W. | 7 | 1 | | | 1 | 6 | | | | | | | | | | | | | | | 8 | 8 | 17 | | |
| Total | W. | 297 | 8 | 1 | 3 | 59 | 137 | 13 | 8 | 1 | 68 | 9 | 1 | 6 | 22 | 2 | 1 | 2 | 67 | 10 | 5 | 28 | 75 | 309 | | |
| Means | C. | 227 | 8 | 1 | | 30 | 116 | 10 | 6 | 2 | 63 | 9 | 2 | 3 | 33 | 3 | 0 | 1 | 30 | 11 | 0 | 26 | 44 | 236 | | |

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 767

different diseases, violence, and ages; also daily meteorological conditions and variations, year ending June 30, 1888.

JULY, 1887.

Meteorological conditions.

| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
|-----------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|--------------------|---------------|
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 10 p. m. | | | |
| 30.05 | 67.3 | 78.7 | 89.0 | 67.3 | 21.7 | 70.0 | 65.7 | S. | W. | S. | 118 | ..... | 1 |
| 30.01 | 70.3 | 77.7 | 87.4 | 67.8 | 19.6 | 70.0 | 66.0 | SW. | S. | S. | 157 | ..... | 2 |
| 30.02 | 71.0 | 78.0 | 87.1 | 68.8 | 18.3 | 71.0 | 67.3 | SW. | S. | S. | 184 | ..... | 3 |
| 30.04 | 73.7 | 77.0 | 84.5 | 71.0 | 13.5 | 70.7 | 67.3 | S. | SE. | SE. | 195 | T | 4 |
| 29.85 | 81.7 | 78.7 | 86.1 | 69.6 | 16.5 | 73.7 | 71.7 | N. | SW. | SW. | 204 | 1.16 | 5 |
| 29.89 | 82.7 | 77.3 | 84.5 | 71.4 | 13.1 | 73.0 | 72.0 | SW. | S. | S. | 132 | .04 | 6 |
| 29.81 | 81.3 | 78.7 | 85.2 | 70.7 | 14.5 | 74.0 | 72.0 | SW. | S. | SW. | 88 | ..... | 7 |
| 29.76 | 71.7 | 81.7 | 90.0 | 70.5 | 19.5 | 73.3 | 70.7 | 0 | S. | S. | 66 | ..... | 8 |
| 29.65 | 81.3 | 78.0 | 82.9 | 74.5 | 8.4 | 73.3 | 71.7 | 0 | 0 | SW. | 51 | .53 | 9 |
| 29.69 | 53.7 | 79.7 | 86.6 | 71.8 | 14.8 | 67.3 | 60.3 | NW. | W. | NW. | 194 | ..... | 10 |
| 29.85 | 53.0 | 77.3 | 87.8 | 65.5 | 22.3 | 65.0 | 57.7 | NW. | NW. | NW. | 150 | ..... | 11 |
| 29.96 | 53.3 | 79.7 | 90.5 | 64.5 | 26.0 | 67.3 | 60.7 | NW. | NW. | SW. | 83 | ..... | 12 |
| 29.92 | 62.0 | 82.7 | 95.2 | 68.2 | 27.0 | 72.0 | 67.0 | 0 | NW. | SW. | 78 | ..... | 13 |
| 29.94 | 54.3 | 85.3 | 94.5 | 75.5 | 19.0 | 72.0 | 66.7 | NW. | E. | SE. | 90 | ..... | 14 |
| 29.98 | 58.7 | 80.0 | 89.8 | 71.4 | 18.4 | 69.0 | 63.0 | NE. | S. | SE. | 109 | ..... | 15 |
| 29.85 | 66.3 | 86.3 | 99.6 | 74.2 | 25.4 | 76.3 | 72.0 | 0 | W. | W. | 88 | ..... | 16 |
| 29.81 | 60.3 | 87.0 | 98.7 | 72.2 | 26.5 | 75.3 | 71.0 | NW. | W. | W. | 131 | { .05 }
{ .10 } | 17 |
| 29.76 | 57.3 | 88.3 | 102.8 | 75.5 | 27.3 | 75.0 | 69.7 | 0 | W. | E. | 112 | .10 | 18 |
| 29.92 | 82.3 | 76.3 | 81.7 | 69.4 | 12.3 | 72.0 | 70.3 | N. | NE. | E. | 150 | .50 | 19 |
| 29.98 | 82.0 | 77.0 | 81.4 | 71.0 | 10.4 | 73.0 | 71.3 | E. | E. | SE. | 118 | ..... | 20 |
| 29.81 | 84.7 | 79.7 | 85.7 | 74.1 | 11.6 | 76.0 | 74.3 | SE. | E. | SE. | 112 | .46 | 21 |
| 29.70 | 79.3 | 81.0 | 90.2 | 71.9 | 18.3 | 75.7 | 73.3 | 0 | S. | SW. | 75 | T | 22 |
| 29.81 | 86.7 | 78.3 | 85.2 | 73.8 | 11.4 | 75.3 | 74.0 | SW. | S. | NE. | 93 | .11 | 23 |
| 29.96 | 87.3 | 77.0 | 84.1 | 71.1 | 13.0 | 74.3 | 73.3 | 0 | E. | S. | 85 | .34 | 24 |
| 29.94 | 75.0 | 82.0 | 89.0 | 74.8 | 14.2 | 75.3 | 73.0 | S. | S. | S. | 106 | T | 25 |
| 29.89 | 79.3 | 80.3 | 91.1 | 75.0 | 16.1 | 74.7 | 73.0 | SE. | S. | NW. | 83 | T | 26 |
| 29.87 | 78.0 | 80.7 | 88.7 | 72.2 | 16.5 | 75.0 | 72.7 | N. | N. | 0 | 88 | ..... | 27 |
| 29.85 | 72.7 | 82.7 | 91.0 | 73.5 | 17.5 | 75.3 | 72.3 | 0 | S. | SE. | 69 | ..... | 28 |
| 29.86 | 72.7 | 84.3 | 92.3 | 73.9 | 18.4 | 76.3 | 73.7 | 0 | S. | S. | 69 | ..... | 29 |
| 29.89 | 71.3 | 83.7 | 92.2 | 75.1 | 17.1 | 75.7 | 72.3 | SW. | S. | S. | 129 | ..... | 30 |
| 29.85 | 78.7 | 80.3 | 87.0 | 76.0 | 11.0 | 74.7 | 72.3 | SW. | SW. | SW. | 124 | T | 31 |
| 926.1 | 2,228.9 | 2,495.4 | 2,761.8 | 2,222.2 | 539.6 | 2,261.5 | 2,158.3 | ..... | ..... | ..... | 3,531 | 3.29 | |
| 29.876 | 71.9 | 80.5 | 89.1 | 71.7 | 17.4 | 73.0 | 69.6 | SW. | S. | S. | 113.9 | .106 | |

T in rain-fall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.

Barometer corrected for elevation above sea and instrumental error only.

TABLE X CONTINUED.—AUGUST, 1887.

| | | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|-----------|----------|---|--|---------------------------------------|---|----------------|-------------|---------------------|----------------|-----------------------|-----------------|--------------|------------|-------------|--------------------------|-------------------|-------------------------------------|-------------|-------------------------------|------------------------|---------------|---------------------|
| Day of month. | Color. | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | | | | | | | | | | | | | | | Total deaths by color. | Total deaths. | |
| | | | Accidents and negligence. | Homicide. | Suicide. | 60 years and over less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under less those by violence. | Scarlet fever. | Diphtheria. | Diarrheal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | Diseases of digestive organs. | | | All other diseases. |
| 1 | W. | 13 | | | | 1 | 4 | | | | 4 | 2 | | 1 | | | | | 3 | | | 1 | 1 | 12 | 33 | |
| 1 | C. | 10 | | | | 1 | 2 | 1 | 1 | | 3 | 1 | | | | | | | 3 | | | 1 | 2 | 10 | 7 | |
| 2 | W. | 3 | | | | 1 | 3 | | | | 3 | | | | 1 | | | | 1 | | | | 1 | 3 | 7 | |
| 3 | W. | 12 | | | | | 2 | | | | | | | | 1 | | | | | | | | | 2 | 7 | |
| 4 | W. | 9 | 1 | | | 2 | 4 | | | | 1 | 2 | | 1 | | | | | 1 | | | | 1 | 5 | 14 | |
| 5 | W. | 4 | | | | | 4 | | | | 2 | | | | | | | | 3 | | | 2 | 2 | 4 | 13 | |
| 6 | W. | 3 | | | | 1 | 2 | | | | 1 | 1 | | | | | | | 1 | | | 1 | 5 | 13 | | |
| 7 | W. | 10 | | | 1 | 2 | 3 | | | | 2 | | | | | | | | 3 | | | 1 | 2 | 11 | 15 | |
| 8 | W. | 4 | | | | | 1 | | | | | 1 | | | | | | | 1 | 1 | | | 1 | 4 | 15 | |
| 9 | W. | 5 | | | | 1 | 1 | 1 | | | 1 | 1 | | | | | | | 1 | 1 | | 1 | 6 | 12 | | |
| 10 | W. | 6 | | | | 1 | 1 | | | | 1 | 1 | | | 1 | | | | 1 | 1 | | 2 | 6 | 12 | | |
| 11 | W. | 6 | 2 | | | | 4 | 1 | 1 | | 1 | | | | | | | 2 | | | | 1 | 4 | 10 | | |
| 12 | W. | 4 | 1 | | | 1 | 2 | | | | 1 | | | | | | | | 1 | | | 1 | 4 | 10 | | |
| 13 | W. | 5 | | | | | 2 | | | | 1 | | | | | | | 1 | | | 2 | 1 | 6 | 16 | | |
| 14 | W. | 3 | | | | | 2 | | | | 1 | 2 | | | 1 | | | | 1 | | | | 2 | 9 | 17 | |
| 15 | W. | 4 | | | | | 3 | | | | 2 | | | | | | | | | | | | | 4 | 12 | |
| 16 | W. | 10 | | | | 1 | 6 | 1 | 1 | | 5 | | | | | | | | 1 | 1 | | | 3 | 10 | 22 | |
| 17 | W. | 12 | | | | | 5 | 2 | 1 | | 1 | 1 | 1 | | 2 | | | | 3 | | | 2 | 4 | 12 | 22 | |
| 18 | W. | 10 | | | | | 5 | 1 | 1 | | 1 | 1 | 1 | | 1 | | | | 5 | | | | 3 | 10 | 14 | |
| 19 | W. | 6 | 1 | | | 3 | 1 | | | | 1 | | | | | | | | | | | 1 | 4 | 7 | 14 | |
| 20 | W. | 6 | | | | | 3 | | | | | 1 | | | 2 | | | | 2 | | | | 1 | 6 | 10 | |
| 21 | W. | 3 | | | | | 3 | | | | 2 | | | | | | | | | | | | | 4 | 7 | 10 |
| 22 | W. | 6 | | | | | 7 | 3 | 2 | | 3 | 2 | | | 1 | | | | 1 | 1 | | | 5 | 13 | 17 | |
| 23 | W. | 12 | 1 | | | 1 | 4 | | | | 1 | | | | 1 | | | | 1 | 2 | | | 2 | 6 | 17 | |
| 24 | W. | 3 | | | | | 3 | | | | 1 | | | | | | | | | | | | 3 | 5 | 9 | |
| 25 | W. | 4 | | | | | 2 | | | | 1 | | | | | | | | | | | | 2 | 4 | 9 | |
| 26 | W. | 12 | | | | | 7 | 4 | | | 1 | 2 | | | 2 | | | | | | | 1 | 8 | 12 | | |
| 27 | W. | 3 | | | | | 2 | | | | 2 | | | | | | | | | | 1 | 3 | 4 | 12 | | |
| 28 | W. | 4 | | | | | 2 | | | | 3 | 1 | | | 1 | | | | 3 | | | 1 | 3 | 13 | 14 | |
| 29 | W. | 1 | | | | | 5 | 1 | 1 | | 1 | 1 | | | 1 | | | | 1 | | | 3 | 1 | 10 | 15 | |
| 30 | W. | 5 | | | | 2 | 1 | | | | 1 | | | | 1 | | | | 1 | | | 2 | 5 | 15 | | |
| 31 | W. | 13 | | | | 1 | 3 | | | | 1 | 1 | 1 | | 2 | | | | 2 | 1 | | 2 | 2 | 13 | 19 | |
| 1 | C. | 10 | | | | | 3 | | | | 1 | | | | | | | | | | | | | 3 | 14 | |
| 2 | C. | 3 | | | | | 3 | | | | 1 | 1 | 1 | | 1 | | | | 2 | 1 | | | 2 | 5 | 15 | |
| 3 | C. | 12 | | | | | 3 | | | | 1 | | | | | | | | | | | | | 3 | 19 | |
| 4 | C. | 9 | | | | | 3 | | | | 1 | | | | | | | | | | | | | 3 | 11 | |
| 5 | C. | 4 | | | | | 2 | | | | 1 | | | | | | | | | | | | | 3 | 13 | |
| 6 | C. | 3 | | | | | 1 | | | | 1 | 1 | 1 | | 3 | | | | 1 | | | | | 3 | 14 | |
| 7 | C. | 10 | | | | | 8 | 2 | 1 | | 1 | | | | 2 | | | | 1 | | | 4 | 3 | 12 | 14 | |
| 8 | C. | 4 | | | | | 2 | | | | 1 | 1 | | | 2 | | | | 1 | | | 1 | 2 | 3 | 11 | |
| 9 | C. | 3 | | | | | 1 | | | | 1 | | | | | | | | | | | | | 2 | 10 | |
| 10 | C. | 12 | | | | | 4 | | | | 1 | | | | 1 | | | | 1 | | | | 2 | 8 | 11 | |
| 11 | C. | 6 | | | | | 3 | | | | 2 | 1 | | | 1 | | | | 1 | | | | 1 | 5 | 12 | |
| 12 | C. | 5 | | | | | 1 | | | | 1 | | | | | | | | | | | | | 3 | 13 | |
| 13 | C. | 6 | | | | | 1 | | | | 1 | 1 | 1 | | 3 | | | | 1 | | | | | 3 | 14 | |
| 14 | C. | 12 | | | | | 8 | | | | 1 | | | | 1 | | | | | | | | | 2 | 14 | |
| 15 | C. | 3 | | | | | 2 | | | | 1 | 1 | | | 2 | | | | 1 | | | | 1 | 3 | 11 | |
| 16 | C. | 8 | | | | | 2 | | | | 1 | | | | | | | | | | | | | 2 | 11 | |
| 17 | C. | 12 | | | | | 4 | | | | 1 | | | | 1 | | | | 1 | | | | 2 | 8 | 10 | |
| 18 | C. | 6 | | | | | 3 | | | | 1 | 1 | 1 | | 1 | | | | 1 | | | | 1 | 6 | 11 | |
| 19 | C. | 5 | | | | | 3 | | | | 2 | | | | 2 | | | | | | | | | 3 | 12 | |
| 20 | C. | 13 | | | | | 7 | 1 | 1 | | 1 | | | | | | | | 1 | | | 3 | 4 | 13 | 19 | |
| 21 | C. | 6 | | | | | 2 | | | | 1 | | | | | | | | | | | | | 2 | 6 | 6 |
| Total | W. | 216 | 6 | 2 | | 40 | 83 | 11 | 9 | 1 | 6 | 28 | 20 | 1 | 4 | 22 | 2 | 1 | 0 | 34 | 11 | 0 | 29 | 57 | 224 | 412 |
| Means | C. | 181 | 5 | 2 | | 26 | 90 | 16 | 9 | 0 | 1 | 35 | 12 | 1 | 1 | 21 | 2 | 2 | 1 | 25 | 9 | 2 | 13 | 56 | 188 | |

TABLE X CONTINUED.—AUGUST, 1887.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 10 p. m. | | | |
| 29.83 | 82.7 | 80.0 | 87.4 | 74.1 | 13.3 | 75.7 | 74.40 | SW. | S. | S. | 109 | .01 | 1 |
| 29.83 | 87.3 | 76.0 | 79.1 | 73.4 | 5.7 | 73.0 | 71.7 | SW. | S. | S. | 71 | .07 | 2 |
| 29.94 | 79.7 | 79.0 | 86.7 | 69.3 | 17.4 | 74.0 | 71.7 | NW. | E. | E. | 88 | ..... | 3 |
| 30.02 | 78.0 | 77.0 | 85.3 | 71.3 | 14.0 | 71.7 | 69.0 | NE. | E. | SE. | 116 | .02 | 4 |
| 29.85 | 77.7 | 81.3 | 90.4 | 71.3 | 19.1 | 75.3 | 72.7 | E. | S. | SE. | 69 | .18 | 5 |
| 29.74 | 81.0 | 78.0 | 91.7 | 73.3 | 18.4 | 73.7 | 71.7 | S. | N. | N. | 111 | *.03 | 6 |
| 29.97 | 61.0 | 71.3 | 89.8 | 62.0 | 18.8 | 62.7 | 57.0 | N. | NE. | N. | 127 | ..... | 7 |
| 30.14 | 64.0 | 71.7 | 79.7 | 62.2 | 17.5 | 60.7 | 53.7 | N. | NE. | E. | 82 | ..... | 8 |
| 30.11 | 66.0 | 73.7 | 81.4 | 58.2 | 23.2 | 65.3 | 61.0 | 0 | S. | SE. | 57 | ..... | 9 |
| 29.97 | 71.7 | 75.7 | 83.8 | 63.2 | 20.6 | 69.0 | 65.3 | 0 | S. | S. | 103 | ..... | 10 |
| 29.82 | 79.3 | 78.3 | 91.6 | 69.3 | 22.3 | 72.7 | 70.3 | S. | S. | 0 | 139 | 1.33 | 11 |
| 29.81 | 71.0 | 81.0 | 89.6 | 70.8 | 18.8 | 73.0 | 69.7 | SW. | N. | N. | 91 | .08 | 12 |
| 29.96 | 67.0 | 71.7 | 82.6 | 65.0 | 17.6 | 64.0 | 60.0 | N. | N. | NE. | 109 | ..... | 13 |
| 29.92 | 66.3 | 72.7 | 79.3 | 63.3 | 16.0 | 65.0 | 60.7 | 0 | SE. | SE. | 99 | T | 14 |
| 29.76 | 92.3 | 66.3 | 71.4 | 60.8 | 10.6 | 64.7 | 61.0 | NE. | NE. | NE. | 80 | .09 | 15 |
| 29.73 | 85.7 | 71.0 | 78.7 | 65.8 | 12.9 | 67.7 | 66.3 | N. | N. | 0 | 48 | *09 | 16 |
| 29.81 | 77.3 | 75.3 | 83.6 | 63.8 | 19.8 | 70.0 | 67.0 | 0 | S. | S. | 94 | .09 | 17 |
| 29.71 | 72.7 | 77.0 | 86.1 | 71.7 | 14.4 | 70.0 | 66.7 | SW. | NW. | N. | 177 | .05 | 18 |
| 29.84 | 70.0 | 78.0 | 87.0 | 65.9 | 21.1 | 70.0 | 66.0 | 0 | S. | 0 | 63 | ..... | 19 |
| 29.80 | 80.3 | 75.7 | 87.3 | 70.5 | 16.8 | 71.0 | 68.7 | NW. | N. | 0 | 95 | .03 | 20 |
| 29.89 | 80.0 | 74.7 | 81.9 | 64.2 | 20.7 | 70.0 | 68.3 | 0 | S. | SE. | 104 | .20 | 21 |
| 29.74 | 81.3 | 77.0 | 86.0 | 64.1 | 21.9 | 72.0 | 70.0 | SW. | S. | SE. | 1171 | .07 | 22 |
| 29.66 | 78.3 | 78.7 | 87.2 | 69.8 | 17.4 | 73.0 | 70.3 | SW. | S. | S. | 79 | ..... | 23 |
| 29.66 | 68.0 | 78.0 | 85.3 | 72.8 | 12.5 | 69.7 | 66.0 | S. | N. | N. | 143 | ..... | 24 |
| 29.82 | 56.0 | 67.3 | 76.3 | 61.6 | 14.7 | 57.7 | 50.0 | NW. | N. | 0 | 238 | ..... | 25 |
| 29.96 | 60.3 | 64.0 | 72.2 | 55.1 | 17.1 | 55.3 | 48.7 | NW. | W. | 0 | 82 | ..... | 26 |
| 29.97 | 75.3 | 63.3 | 68.2 | 58.2 | 10.0 | 58.3 | 55.3 | 0 | S. | W. | 55 | T | 27 |
| 29.97 | 69.7 | 62.3 | 73.1 | 51.7 | 18.4 | 56.0 | 51.0 | NW. | N. | 0 | 81 | T | 28 |
| 30.08 | 64.3 | 62.0 | 74.0 | 51.0 | 23.0 | 54.3 | 48.3 | N. | N. | N. | 102 | ..... | 29 |
| 30.11 | 57.3 | 64.7 | 77.0 | 51.7 | 25.3 | 55.0 | 47.0 | NE. | N. | 0 | 76 | ..... | 30 |
| 30.15 | 63.7 | 65.0 | 74.8 | 54.0 | 20.8 | 57.0 | 51.0 | N. | NE. | 0 | 97 | ..... | 31 |
| 926.57 | 2,255.2 | 2,267.7 | 2,542.5 | 2,002.4 | 540.1 | 2,067.5 | 1,953.1 | SW. | S. | SE. | 3,156 | 2.34 | |
| 29.889 | 72.7 | 73.2 | 82.0 | 64.6 | 17.4 | 66.7 | 63.0 | N.SW. | ..... | N.SE | 101.8 | .075 | |

T in rain-fall column indicates precipitation inappreciable. *Thunder storm. † By dial.
 The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.
 Barometer corrected for temperature and instrumental error only.

TABLE X CONTINUED.—SEPTEMBER, 1887.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|-----------|-----------------|--|--|---------------------------------------|--|--|--|-------------|--------|---------------------|----------------|-----------------------|-----------------|--------------|------------|-------------|--------------------------|-------------------|-------------------------------------|-------------|-------------------------------|---------------------|------------------|---------------|---------------------------------------|
| | | Total deaths, less those by violence. | Deaths by violence. | | Deaths by ages. | | | | | | | Diphtheria. | Group. | Diarrheal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Deaths by color. | Total deaths. | |
| | | | Accidents and negligence. | Homicide. | Suicide. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 2 days, less those by violence. | One day old and under, less those by violence. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | | | | | | | | | | | | | | | | | | Under 2 days, less those by violence. |
| 1 | W. | 3 | | | 1 | 2 | | | | | | 1 | 1 | | 2 | | | 1 | 1 | | 1 | | | 1 | | | 7 | 10 | |
| 2 | W. | 4 | | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 4 | 10 | |
| 3 | W. | 14 | | | 4 | 5 | 1 | 1 | | | | 2 | | 1 | 1 | | 1 | 1 | | 3 | 1 | | | 1 | | 4 | 14 | 22 | |
| 4 | W. | 4 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 2 | | | | 1 | | | | | | | | | 1 | 5 | 10 | |
| 5 | W. | 5 | | | 2 | 1 | 1 | | | | | 1 | | | 1 | | | | 1 | | | | | | | | 7 | 16 | |
| 6 | W. | 5 | | | | 4 | 4 | 1 | 1 | 1 | 1 | | 1 | | | 2 | | | 1 | 1 | | | | | | 5 | 9 | 14 | |
| 7 | W. | 4 | | | | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 2 | | | | 1 | 1 | 1 | | | | 1 | 4 | 11 | |
| 8 | W. | 15 | | | 4 | 1 | 4 | | | | | 1 | 1 | 1 | | | 3 | 1 | | 1 | 3 | 1 | 1 | | | 2 | 15 | 18 | |
| 9 | W. | 16 | | | 4 | 7 | 1 | 1 | | | | | 4 | | | 1 | 1 | | | | | | | | | 4 | 16 | 23 | |
| 10 | W. | 4 | | | 3 | 1 | | | | | | | | | | | 2 | | | 1 | | | | | | 2 | 4 | 8 | |
| 11 | W. | 8 | | | 2 | 2 | | | | | | | 1 | 1 | | | 2 | | | 1 | 2 | | | | | 2 | 8 | 1 | |
| 12 | W. | 12 | | | 1 | 2 | | | | | | | | | | | 3 | 1 | | 2 | 2 | 2 | | | | 2 | 12 | 18 | |
| 13 | W. | 11 | | | 3 | 4 | | | | | | | 2 | 1 | | | 1 | 1 | | 2 | | | | | | 2 | 11 | 13 | |
| 14 | W. | 7 | | | 3 | 3 | | | | | | | | 1 | | | 1 | | | 1 | | | | | | 2 | 7 | 16 | |
| 15 | W. | 4 | | | 1 | 2 | | | | | | | | | 1 | | 1 | | | 1 | 2 | | | | | 3 | 8 | 12 | |
| 16 | W. | 8 | | | 2 | 2 | | | | | | | | 1 | | 1 | 1 | | | 1 | | | | | | 1 | 8 | 15 | |
| 17 | W. | 5 | | 1 | 1 | 1 | | | | | | | 1 | | | | 1 | | | 1 | 1 | | | | | 3 | 5 | 11 | |
| 18 | W. | 6 | | | 3 | 2 | | | 1 | | | | 1 | 1 | | | | | | 1 | | 1 | | | | 2 | 6 | 12 | |
| 19 | W. | 6 | 1 | | 1 | 1 | | | | | | | | | | 1 | 1 | 1 | | 1 | | | | | | 2 | 7 | 12 | |
| 20 | W. | 14 | | | 2 | 3 | | | | | | | | | | 4 | | | 3 | 2 | | | | | | 4 | 14 | 19 | |
| 21 | W. | 5 | | | 3 | 2 | | | 1 | | | | 1 | 2 | | 1 | | | 1 | 1 | 1 | 1 | | | | 1 | 5 | 13 | |
| 22 | W. | 12 | 1 | | 4 | 5 | | | 1 | 1 | 2 | 1 | 1 | | | 2 | | | 1 | 1 | | | | | | 2 | 13 | 20 | |
| 23 | W. | 7 | | | 3 | 2 | | | | | | 1 | | | | 1 | | | 2 | 1 | | | | | | 1 | 7 | 14 | |
| 24 | W. | 2 | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 2 | 7 | |
| 25 | W. | 3 | | | 2 | 1 | | | | | | | | | | 3 | | | 1 | 1 | | 1 | | | | 3 | 4 | 12 | |
| 26 | W. | 6 | | | 2 | 3 | | | 1 | | | | 1 | | | 1 | 1 | | 1 | 1 | 1 | | | | | 1 | 8 | 10 | |
| 27 | W. | 13 | | | 1 | 5 | | | | 1 | | 1 | | 2 | | 3 | | 1 | 1 | 1 | | | | | | 3 | 13 | 19 | |
| 28 | W. | 5 | | | 2 | 1 | | 1 | | 1 | | | | | | 1 | | 1 | | 1 | 1 | | | | | 1 | 6 | 19 | |
| 29 | W. | 15 | | | 4 | 5 | | 2 | 1 | | | | | 1 | 1 | 3 | 1 | | 1 | 1 | | 1 | | | | 2 | 5 | 20 | |
| 30 | W. | 10 | | | | 4 | | | | | | | | | 1 | 2 | | | 2 | | | | | | | 1 | 10 | 17 | |
| 30 | W. | 6 | | | 2 | 2 | | | | | | | | | | 2 | | | | 2 | | | | | | | 3 | 6 | 14 |
| 30 | C. | 8 | | | | 6 | | | | | | | | | | | | | | | | | | | | | 3 | 8 | |
| Total.. | W. | 238 | 2 | 1 | 2 | 48 | 78 | 3 | 10 | 3 | 18 | 14 | 2 | 5 | 34 | 5 | 3 | 2 | 35 | 11 | 1 | 24 | 61 | 233 | | | 433 | | |
| | C. | 197 | 1 | 2 | | 32 | 84 | 19 | 8 | 1 | 15 | 8 | | 5 | 34 | 9 | 1 | 6 | 21 | 14 | 1 | 11 | 71 | 200 | | | | | |
| Means | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE X CONTINUED.—SEPTEMBER, 1887.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|--------|---------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a.m. | 3 p.m. | 10 p.m. | | | |
| 30.09 | 62.0 | 66.3 | 78.3 | 53.0 | 25.3 | 58.0 | 51.7 | 0 | S. | S. | 62 | ..... | 1 |
| 29.88 | 65.7 | 71.7 | 83.4 | 58.0 | 25.4 | 63.0 | 58.0 | S. | SE. | SW. | 114 | ..... | 2 |
| 29.93 | 68.7 | 70.3 | 79.2 | 65.0 | 14.2 | 63.3 | 58.7 | N. | W. | NE. | 106 | .05 | 3 |
| 30.16 | 63.0 | 64.0 | 74.3 | 53.8 | 20.5 | 56.0 | 50.0 | N. | NE. | 0 | 104 | ..... | 4 |
| 30.15 | 66.0 | 67.0 | 78.5 | 52.0 | 26.5 | 59.0 | 53.0 | 0 | S. | S. | 80 | ..... | 5 |
| 29.89 | 70.3 | 72.0 | 81.6 | 59.5 | 22.1 | 65.0 | 61.0 | S. | S. | S. | 162 | ..... | 6 |
| 29.62 | 67.3 | 75.3 | 89.6 | 66.0 | 23.6 | 67.0 | 62.3 | S. | SW. | 0 | 143 | ..... | 7 |
| 29.86 | 56.3 | 66.0 | 73.5 | 61.0 | 12.5 | 56.3 | 48.7 | N. | N. | NE. | 166 | ..... | 8 |
| 29.97 | 64.3 | 65.0 | 76.7 | 50.6 | 26.1 | 57.0 | 51.0 | 0 | S. | S. | 101 | ..... | 9 |
| 30.02 | 69.0 | 72.0 | 81.9 | 63.2 | 18.7 | 64.7 | 60.3 | 0 | N. | NE. | 95 | .01 | 10 |
| 30.16 | 89.0 | 62.3 | 70.9 | 59.9 | 11.0 | 60.7 | 59.0 | NE. | NE. | E. | 131 | .13 | 11 |
| 29.99 | 90.7 | 70.0 | 77.0 | 64.2 | 12.8 | 68.0 | 67.0 | S. | SW. | E. | 104 | .76 | 12 |
| 29.96 | 92.7 | 68.3 | 74.8 | 63.1 | 11.7 | 66.7 | 66.0 | NE. | SE. | E. | 87 | .70 | 13 |
| 29.96 | 90.7 | 74.3 | 82.6 | 67.8 | 14.8 | 72.3 | 71.7 | 0 | SE. | SE. | 27 | .03 | 14 |
| 30.01 | 64.3 | 71.7 | 78.4 | 66.7 | 11.7 | 63.0 | 57.7 | N. | N. | N. | 94 | ..... | 15 |
| 30.18 | 56.3 | 62.3 | 71.7 | 56.9 | 14.8 | 53.0 | 45.7 | N. | N. | NE. | 131 | ..... | 16 |
| 30.30 | 63.7 | 57.3 | 67.1 | 47.0 | 20.1 | 50.3 | 44.0 | N. | E. | NE. | 94 | ..... | 17 |
| 30.29 | 72.7 | 62.7 | 70.4 | 52.0 | 18.4 | 57.3 | 54.0 | 0 | S. | SE. | 69 | ..... | 18 |
| 30.23 | 78.7 | 68.0 | 76.9 | 62.0 | 14.9 | 63.0 | 60.3 | 0 | SW. | 0 | 49 | .13 | 19 |
| 30.24 | 67.0 | 66.7 | 78.0 | 57.2 | 20.8 | 58.7 | 53.3 | 0 | N. | NE. | 61 | ..... | 20 |
| 30.06 | 80.0 | 67.7 | 77.4 | 55.9 | 21.5 | 63.3 | 60.7 | 0 | S. | S. | 81 | ..... | 21 |
| 29.73 | 75.3 | 70.0 | 85.6 | 61.8 | 23.8 | 64.0 | 60.7 | SW. | S. | NE. | 117 | .05 | 22 |
| 29.84 | 68.7 | 55.7 | 64.9 | 51.9 | 13.0 | 50.3 | 45.3 | N. | N. | N. | 216 | .17 | 23 |
| 30.06 | 61.7 | 48.3 | 53.9 | 43.8 | 10.1 | 42.7 | 35.0 | NW. | N. | N. | 216 | ..... | 24 |
| 30.06 | 69.0 | 48.3 | 57.1 | 41.3 | 15.8 | 43.0 | 37.0 | NW. | NW. | NW. | 112 | .... | 25 |
| 30.01 | 62.0 | 52.0 | 64.8 | 40.0 | 24.8 | 45.0 | 37.7 | 0 | W. | 0 | 69 | ..... | 26 |
| 30.01 | 77.0 | 56.0 | 63.8 | 46.0 | 17.8 | 51.7 | 48.0 | 0 | SW. | 0 | 62 | .02 | 27 |
| 30.00 | 96.3 | 59.0 | 63.0 | 54.0 | 9.0 | 58.7 | 58.0 | E. | E. | NE. | 78 | .88 | 28 |
| 29.93 | 95.3 | 68.3 | 72.7 | 60.1 | 12.6 | 67.0 | 67.0 | 0 | E. | E. | 51 | .19 | 29 |
| 29.86 | 84.7 | 71.3 | 80.8 | 67.9 | 12.9 | 67.7 | 66.0 | S. | S. | S. | 84 | ..... | 30 |
| 900.45 | 2,188.4 | 1,949.8 | 2,228.8 | 1,701.6 | 527.2 | 1,775.7 | 1,648.8 | ..... | ..... | ..... | 3,057 | 3.12 | |
| 30.015 | 72.9 | 65.0 | 74.3 | 56.7 | 17.6 | 59.2 | 55.0 | N. | S. | NE. | 101.9 | .104 | |

The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.
Barometer corrected for temperature and instrumental error only.

TABLE X CONTINUED.—OCTOBER, 1887.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|-----------|--|--|---------------------------------------|--|------------|--------|---------------------|----------------|-----------------------|-----------------|--------------|------------|-------------|--------------------------|-------------------|-------------------------------------|-----------|-------------|-------------------------------|---------------------|------------------------|---------------|
| | | Total deaths, less those by violence. | Deaths by violence. | | Deaths by ages. | | | | Diphtheria | Cr up. | Diarrheal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Nervous diseases. | Diseases of the circulatory organs. | Pleurisy. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths by color. | Total deaths. |
| | | | Accidents and negligence. | Homicide. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One-day old and under, less those by violence. | | | | | | | | | | | | | | | | | | |
| 1..... | W. | 5 | | | 1 | | | | | | | | | | 1 | 1 | | | | 1 | | | 1 | 1 | 5 | 7 |
| 2..... | W. | 5 | | 1 | | 2 | 1 | | | | | | | | 1 | 1 | | | | 1 | | 1 | | 2 | 6 | 9 |
| 3..... | W. | 14 | | | 1 | 1 | 1 | | | | | | | | 4 | 2 | 1 | | 3 | 1 | | | 2 | 2 | 14 | 21 |
| 4..... | W. | 6 | 1 | | 2 | 2 | 2 | 1 | | | 1 | | | | 1 | | 1 | | 1 | 1 | | | 2 | 2 | 7 | 17 |
| 5..... | W. | 8 | | | 2 | 2 | 2 | 1 | | | 1 | | | | 2 | 2 | | 1 | 3 | | | | 1 | 2 | 8 | 17 |
| 6..... | W. | 9 | | | 2 | 2 | 3 | | | | 1 | | | | 2 | 2 | | 1 | 1 | | | | | 3 | 9 | 17 |
| 7..... | W. | 3 | | | 1 | | | | | | 1 | | | | 1 | | | 1 | | 1 | | | | 1 | 3 | 5 |
| 8..... | W. | 2 | | | | | | | | | | | | | 1 | | | | | 1 | | | | 1 | 2 | 6 |
| 9..... | W. | 4 | | | 1 | | | | | | | | | | 1 | | | | | | | | | 1 | 4 | 6 |
| 10..... | W. | 2 | | | 1 | 1 | 1 | | | | | | | | | | | | 1 | 1 | | | | 1 | 2 | 11 |
| 11..... | W. | 8 | 1 | | 5 | 1 | 1 | 1 | | | | 1 | | 1 | | 1 | | | 1 | 1 | | | 1 | 2 | 2 | 13 |
| 12..... | W. | 6 | | | 1 | 2 | 3 | 1 | | | | 1 | | | 1 | 1 | 1 | | | | | | 1 | 4 | 6 | 11 |
| 13..... | W. | 7 | | | 1 | 1 | 2 | | | | | | | | 1 | | | | 1 | | | | 1 | 1 | 7 | 13 |
| 14..... | W. | 3 | | | 3 | 1 | 1 | | | | | | | | 2 | | | | 2 | 1 | | | | 3 | 8 | 17 |
| 15..... | W. | 9 | | | 1 | 4 | 4 | | | | 1 | 2 | | | 1 | | | | 1 | 1 | | | | 3 | 9 | 20 |
| 16..... | W. | 12 | | | 2 | 4 | 4 | 1 | | 1 | | | | | 4 | | | | 1 | 1 | | | | 3 | 12 | 20 |
| 17..... | W. | 2 | | | 4 | | 4 | 1 | | | | | | | 2 | | | | 1 | 1 | | | | 2 | 8 | 3 |
| 18..... | W. | 8 | | | 1 | | 1 | | | | | | | | 1 | | | | | 1 | | | | 1 | 2 | 3 |
| 19..... | W. | 2 | | | | 1 | 1 | | | | | | | | 1 | | | | | | | | | 1 | 2 | 8 |
| 20..... | W. | 4 | | | 2 | 1 | 1 | | | | 1 | | | | 1 | | | | | | | | | 2 | 4 | 9 |
| 21..... | W. | 4 | | | 2 | 5 | 1 | | | | 1 | | | | | | | | 2 | | | | | 3 | 6 | 11 |
| 22..... | W. | 3 | | | 2 | 1 | 1 | | | | 1 | | | | 1 | | | | | | | | | 1 | 3 | 14 |
| 23..... | W. | 10 | | | 2 | 3 | 3 | 1 | | | 1 | | | | 3 | | | | 1 | | | | | 3 | 4 | 14 |
| 24..... | W. | 4 | 1 | | 1 | 3 | 3 | 1 | | | | | | | | | | | 1 | | | | | 3 | 6 | 9 |
| 25..... | W. | 5 | 1 | | | 3 | 2 | 2 | | 1 | | | | | 1 | | | | 2 | | | | | 3 | 8 | 12 |
| 26..... | W. | 3 | | | 1 | 1 | 1 | | | | | | | | 1 | | | | | | | | | 4 | 7 | 12 |
| 27..... | W. | 5 | | | 1 | | | | | | | | | | | | 1 | 1 | | | | | | 1 | 5 | 12 |
| 28..... | W. | 2 | | | | 1 | | | | | | | | | 1 | | | | 2 | | | | | 1 | 7 | 9 |
| 29..... | W. | 5 | | | | 3 | | | | | 1 | | | | 1 | | | | | | | | | 2 | 5 | 12 |
| 30..... | W. | 5 | | | | 1 | 1 | | | | | | | | | | | | 1 | | | | | 1 | 6 | 12 |
| 31..... | W. | 13 | | | 4 | 2 | 2 | 1 | | | | | | | 1 | | | | 4 | 1 | | | | 5 | 13 | 19 |
| 1..... | W. | 6 | | | | 3 | 3 | | | | 1 | | | | 2 | | | | | | | | | 3 | 6 | 15 |
| 2..... | W. | 9 | | | 1 | 3 | 4 | 2 | | 2 | | | | | 1 | | | | 1 | | | | | 3 | 9 | 15 |
| 3..... | W. | 9 | | | | 4 | 4 | 1 | | 1 | | | | | 1 | | | | 1 | | | | | 3 | 6 | 17 |
| 4..... | W. | 8 | | | 4 | 3 | 3 | 1 | | 1 | | | | | 2 | | | | 1 | 1 | | | | 4 | 8 | 17 |
| 5..... | W. | 4 | 2 | | 2 | 1 | 1 | | | | | | | | 1 | | | | | | | | | 2 | 6 | 9 |
| 6..... | W. | 3 | | | 1 | 1 | 1 | | | | | | | | 1 | | | | | | | | | 3 | 4 | 9 |
| 7..... | W. | 4 | | | | 1 | 1 | | | | | | | | 1 | | | | | | | | | 1 | 3 | 5 |
| 8..... | W. | 1 | | | | 2 | 1 | | | | | | | | | | | | 1 | | | | | 1 | 4 | 9 |
| 9..... | W. | 4 | | | | 2 | 1 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 10..... | W. | 4 | | | | 2 | 1 | | | | | | | | 1 | | | | | | | | | 1 | 4 | 9 |
| 11..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | 1 | | | | | 1 | 5 | 9 |
| 12..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 13..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 14..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 15..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 16..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 17..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 18..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 19..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 20..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 21..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 22..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 23..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 24..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 25..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 26..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 27..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 28..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 29..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 30..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 31..... | W. | 4 | 1 | | | | 2 | | | | | | | | 1 | | | | | | | | | 1 | 5 | 9 |
| 31..... | W. | 6 | 5 | | | 2 | 5 | 2 | | 1 | | | | | 1 | | | | | | | | | 4 | 6 | 18 |
| Total. | W. | 209 | 7 | 1 | 58 | 51 | 10 | 4 | 7 | 5 | 9 | 13 | 1 | 4 | 32 | 6 | 1 | 1 | 13 | 12 | 0 | 3 | 19 | 63 | 217 | 358 |
| Means | C. | 138 | 3 | | 18 | 61 | 12 | 5 | 1 | 1 | 9 | 7 | 0 | 5 | 24 | 6 | 5 | 1 | 17 | 6 | 1 | 0 | 7 | 46 | 141 | |

TABLE X CONTINUED.—OCTOBER, 1887.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 10 p. m. | | | |
| 29.83 | 64.7 | 68.7 | 76.0 | 62.6 | 13.4 | 60.7 | 55.3 | N. | N. | N. | 83 | T | 1 |
| 29.79 | 70.7 | 65.3 | 77.0 | 57.5 | 19.5 | 58.3 | 53.7 | 0 | NW. | 0 | 63 | ..... | 2 |
| 29.66 | 55.3 | 64.0 | 75.2 | 53.9 | 21.3 | 54.3 | 46.0 | 0 | W. | NW. | 99 | .03 | 3 |
| 29.53 | 50.3 | 60.3 | 71.2 | 54.4 | 16.8 | 50.3 | 40.3 | S. | N. | NW. | 229 | ..... | 4 |
| 29.72 | 62.7 | 55.0 | 62.8 | 49.9 | 12.9 | 48.0 | 41.7 | W. | W. | NW. | 199 | .01 | 5 |
| 29.96 | 58.0 | 58.3 | 68.7 | 47.5 | 21.2 | 50.0 | 42.0 | NW. | SW. | S. | 120 | ..... | 6 |
| 30.05 | 62.0 | 65.0 | 81.1 | 50.4 | 30.7 | 56.3 | 49.3 | 0 | S. | 0 | 57 | ..... | 7 |
| 30.00 | 65.3 | 66.3 | 84.1 | 49.9 | 34.2 | 58.0 | 52.0 | 0 | NW. | 0 | 30 | ..... | 8 |
| 29.86 | 66.0 | 70.0 | 81.9 | 57.2 | 24.7 | 61.7 | 56.3 | 0 | N. | 0 | 47 | ..... | 9 |
| 29.76 | 72.3 | 73.7 | 85.2 | 63.0 | 22.2 | 67.0 | 63.7 | 0 | N. | 0 | 91 | .03 | 10 |
| 29.79 | 70.7 | 53.0 | 72.6 | 47.5 | 25.1 | 48.7 | 43.7 | NW. | N. | 0 | 188 | .02 | 11 |
| 29.99 | 59.3 | 48.0 | 55.9 | 42.8 | 13.1 | 41.7 | 33.0 | NW. | NW. | 0 | 157 | ..... | 12 |
| 29.92 | 51.3 | 56.3 | 67.2 | 39.2 | 28.0 | 47.0 | 36.7 | S. | SW. | NW. | 113 | ..... | 13 |
| 30.03 | 49.3 | 50.3 | 60.0 | 43.9 | 16.1 | 42.0 | 30.7 | NW. | NW. | NW. | 167 | ..... | 14 |
| 30.31 | 55.3 | 45.7 | 56.3 | 39.3 | 17.0 | 38.7 | 28.7 | N. | N. | 0 | 122 | ..... | 15 |
| 30.26 | 67.3 | 49.3 | 62.5 | 30.9 | 31.6 | 43.7 | 38.0 | 0 | S. | 0 | 81 | ..... | 16 |
| 30.05 | 60.7 | 60.7 | 72.3 | 45.0 | 27.3 | 54.7 | 50.3 | 0 | S. | S. | 104 | ..... | 17 |
| 29.87 | 85.0 | 62.3 | 68.8 | 57.8 | 11.0 | 59.7 | 57.3 | S. | S. | S. | 73 | .14 | 18 |
| 29.85 | 74.0 | 59.3 | 66.1 | 53.9 | 12.2 | 54.3 | 50.3 | N. | N. | 0 | 96 | ..... | 19 |
| 29.76 | 93.3 | 56.0 | 58.3 | 51.9 | 6.4 | 54.7 | 53.7 | NE. | E. | N. | 91 | 1.14 | 20 |
| 29.69 | 55.0 | 52.0 | 58.6 | 45.2 | 13.4 | 44.7 | 34.7 | NW. | NW. | SW. | 270 | ..... | 21 |
| 30.05 | 47.3 | 44.3 | 54.0 | 39.0 | 15.0 | 36.7 | 23.3 | SW. | NW. | N. | 152 | ..... | 22 |
| 30.02 | 55.0 | 53.0 | 64.1 | 34.9 | 29.2 | 44.7 | 35.3 | 0 | S. | SW. | 200 | ..... | 23 |
| 30.04 | 52.3 | 55.7 | 69.4 | 48.9 | 20.5 | 47.0 | 37.3 | S. | NW. | N. | 233 | T | 24 |
| 20.29 | 74.7 | 42.3 | 50.4 | 38.6 | 11.8 | 39.0 | 34.0 | N. | N. | N. | 95 | .22 | 25 |
| 30.31 | 81.7 | 43.7 | 46.0 | 39.6 | 6.4 | 41.3 | 38.3 | N. | NE. | NE. | 123 | .02 | 26 |
| 30.26 | 89.3 | 48.7 | 51.0 | 42.9 | 8.1 | 47.0 | 45.7 | N. | NE. | N. | 102 | .08 | 27 |
| 30.11 | 93.3 | 51.7 | 53.3 | 49.0 | 4.3 | 50.7 | 49.7 | N. | N. | N. | 100 | .07 | 28 |
| 29.89 | 83.7 | 52.7 | 57.4 | 48.7 | 8.7 | 50.0 | 47.7 | N. | S. | N. | 55 | T | 29 |
| 29.95 | 62.0 | 41.3 | 50.8 | 34.0 | 16.8 | 36.7 | 29.0 | N. | N. | N. | 260 | ..... | 30 |
| 29.79 | 45.7 | 43.7 | 52.0 | 32.2 | 19.8 | 35.7 | 21.0 | NE. | N. | N. | 327 | .06 | 31 |
| 928.39 | 2,042.5 | 1,746.6 | 2,010.2 | 1,415.6 | 558.6 | 1,523.3 | 1,318.7 | ..... | ..... | ..... | 4,127 | 1.82 | |
| 29.948 | 65.9 | 55.4 | 64.8 | 46.8 | 18.0 | 49.1 | 42.5 | N. | N. | N. | 133.1 | .059 | |

T in rain-fall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.

Barometer corrected for temperature and instrumental error only.

TABLE X CONTINUED.—NOVEMBER, 1887.

[illegible]

TABLE X CONTINUED.—NOVEMBER, 1887.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 29.98 | 44.3 | 46.7 | 55.0 | 39.7 | 15.3 | 38.3 | 24.7 | N. | N. | N. | 243 | .76 | 1 |
| 30.00 | 51.0 | 47.3 | 61.9 | 31.6 | 30.3 | 39.3 | 27.3 | NW. | W. | S | 77 | ..... | 2 |
| 29.92 | 52.7 | 51.3 | 67.3 | 34.0 | 33.3 | 42.3 | 32.0 | 0 | SE. | S. | 48 | ..... | 3 |
| 29.76 | 51.0 | 53.7 | 69.5 | 43.9 | 25.6 | 45.0 | 35.0 | S. | S. | NW. | 217 | ..... | 4 |
| 30.13 | 55.3 | 42.3 | 51.9 | 35.0 | 16.9 | 36.0 | 26.3 | W. | W. | N. | 138 | ..... | 5 |
| 30.18 | 58.3 | 45.0 | 57.7 | 30.1 | 27.6 | 38.0 | 28.7 | N. | S. | S. | 74 | ..... | 6 |
| 30.02 | 65.0 | 50.0 | 58.0 | 39.0 | 19.0 | 44.0 | 37.7 | SW. | S. | S. | 74 | ..... | 7 |
| 30.00 | 60.7 | 53.7 | 67.2 | 43.3 | 23.9 | 46.3 | 39.0 | SW. | NW. | NE. | 82 | ..... | 8 |
| 30.14 | 62.0 | 43.7 | 51.8 | 36.0 | 15.8 | 38.3 | 31.0 | N. | E. | SE. | 101 | ..... | 9 |
| 29.75 | 64.3 | 45.3 | 49.6 | 40.4 | 9.2 | 40.3 | 32.7 | NE. | NW. | NW. | 142 | .30 | 10 |
| 29.64 | 48.0 | 41.7 | 45.0 | 37.8 | 7.2 | 35.0 | 23.0 | W. | NW. | NW. | 351 | T | 11 |
| 29.84 | 52.7 | 42.0 | 47.1 | 39.1 | 8.9 | 36.0 | 25.7 | NW. | NW. | NW. | 359 | ..... | 12 |
| 30.00 | 60.0 | 42.7 | 50.9 | 37.7 | 13.2 | 37.3 | 29.7 | NW. | NW. | 0 | 105 | ..... | 13 |
| 29.83 | 76.7 | 46.3 | 54.1 | 38.5 | 15.6 | 43.0 | 39.3 | S. | S. | S. | 112 | .05 | 14 |
| 29.59 | 65.7 | 46.3 | 52.5 | 40.4 | 12.1 | 41.0 | 34.0 | NW. | NW. | NW. | 210 | .05 | 15 |
| 29.71 | 50.0 | 50.7 | 58.3 | 45.2 | 13.1 | 42.0 | 31.0 | NW. | W. | S. | 185 | ..... | 16 |
| 29.75 | 40.0 | 50.0 | 56.2 | 44.3 | 11.9 | 40.3 | 24.0 | 0 | NW. | NW. | 152 | ..... | 17 |
| 30.04 | 38.0 | 42.3 | 47.8 | 38.1 | 9.7 | 33.7 | 17.3 | NW. | NW. | 0 | 75 | ..... | 18 |
| 29.51 | 77.3 | 39.7 | 44.6 | 36.8 | 4.8 | 37.0 | 32.7 | E. | NW. | SW. | 89 | .35 | 19 |
| 29.61 | 60.0 | 32.3 | 43.4 | 28.0 | 15.4 | 28.3 | 18.7 | NW. | NW. | NW. | 184 | .11 | 20 |
| 29.97 | 57.7 | 34.7 | 41.8 | 25.4 | 16.4 | 29.7 | 20.3 | W. | S. | SE. | 96 | ..... | 21 |
| 30.17 | 61.0 | 38.7 | 50.1 | 27.0 | 23.1 | 33.7 | 25.3 | 0 | S. | 0 | 22 | ..... | 22 |
| 30.15 | 70.3 | 41.3 | 50.2 | 31.8 | 18.4 | 37.7 | 32.0 | 0 | W. | 0 | 16 | ..... | 23 |
| 30.21 | 75.3 | 46.7 | 48.1 | 41.3 | 6.8 | 43.3 | 39.0 | N. | E. | NE | 66 | .01 | 24 |
| 30.18 | 81.3 | 51.7 | 63.0 | 44.1 | 18.9 | 48.7 | 45.7 | 0 | S. | NE. | 39 | ..... | 25 |
| 30.20 | 75.3 | 59.3 | 70.0 | 46.4 | 23.6 | 54.3 | 51.0 | 0 | S. | S. | 48 | ..... | 26 |
| 30.11 | 81.7 | 59.7 | 68.1 | 50.9 | 17.2 | 56.3 | 54.0 | S. | S. | S. | 109 | ..... | 27 |
| 30.26 | 59.7 | 40.3 | 62.1 | 30.8 | 31.3 | 35.7 | 26.0 | N. | NW. | NW. | 247 | .20 | 28 |
| 30.56 | 56.7 | 30.7 | 37.0 | 22.7 | 14.3 | 26.0 | 16.3 | NW. | NW. | N. | 168 | ..... | 29 |
| 30.64 | 50.3 | 31.0 | 36.5 | 25.1 | 11.4 | 26.0 | 10.7 | N. | N. | N. | 166 | ..... | 30 |
| 899.85 | 1.892.3 | 1,347.1 | 1,613.7 | 1,104.4 | 509.3 | 1,172.8 | 910.4 | ..... | ..... | ..... | 3,995 | 1.83 | |
| 29.995 | 60.1 | 44.9 | 53.8 | 36.8 | 17.0 | 39.1 | 30.3 | NW. | NW. | NW. | 133.2 | .001 | |

T in rain-fall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.

Barometer corrected for temperature and instrumental error only.

TABLE X CONTINUED.—DECEMBER, 1887.

| | | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|------------|--|--|---------------------------------------|--|---|----------------|--------|-------------|---------------------|----------------|-----------------------|-----------------|--------------|------------|-------------|--------------------------|-------------------|-------------------------------------|-------------|-------------------------------|---------------------|------------------------|---------------|---|
| Day of month. | Color. | Total deaths, less those by violence. | Deaths by violence. | | Deaths by ages. | | | | | Scarlet fever. | Croup. | Diphtheria. | Diarrheal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths by color. | Total deaths. | |
| | | | Accidents and negligence. | Homicides. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under, less those by violence. | | | | | | | | | | | | | | | | | | | | |
| 1 | W. | 4 | | | 1 | | | | | | | | | 1 | | | 1 | | | | | | | | | 4 | 9 | |
| | C. | 5 | | | 1 | | | | | | | | | | | | | | | | | | | | | 5 | 14 | |
| 2 | W. | 7 | | | 1 | | | | | | | | | 2 | | | 1 | | | | | 1 | | | | 7 | 15 | |
| | C. | 7 | | | 1 | | | | | | | | | | | | 1 | | | | | 1 | | | | 7 | 18 | |
| 3 | W. | 8 | | | 1 | | | | | | | | 1 | | | | 1 | | | | | | | | | 8 | 13 | |
| | C. | 7 | | | 1 | | | | | | | 1 | 1 | 2 | | | | | | | | | | | | 7 | 16 | |
| 4 | W. | 9 | | | 1 | | | | | | | 1 | 1 | | | | 2 | | | | | 1 | | | | 9 | 21 | |
| | C. | 9 | | | 1 | | | | | | | | | | | | 2 | | | | | 1 | | | | 9 | 24 | |
| 5 | W. | 7 | | | 4 | | | | | | | | | | | | 1 | | | | | 1 | 1 | 1 | | 7 | 17 | |
| | C. | 6 | | | | | | | | | | | | 2 | | | | | | | | | | | | 6 | 9 | |
| 6 | W. | 3 | | | 1 | | | | | | | 1 | | | | | 1 | | | | | | | | | 3 | 6 | |
| | C. | 6 | | | | | | | | | | | | | | | 2 | | | | | 1 | | | | 6 | 12 | |
| 7 | W. | 5 | | | | | | | | | | | | | | | | 1 | | | | | | | | 5 | 10 | |
| | C. | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 13 | |
| 8 | W. | 9 | | | 4 | | | | | | | 1 | | | | | | | 2 | 1 | | | | | | 9 | 19 | |
| | C. | 3 | | | | | | | | | | | | 1 | | | | | | | | | | | | 3 | 12 | |
| 9 | W. | 9 | | | 1 | | | | | | | | | | | | 1 | | | | | 2 | 1 | | | 9 | 17 | |
| | C. | 4 | | | 1 | | | | | | | | | | | | | 1 | 1 | | | | | | | 4 | 10 | |
| 10 | W. | 8 | | | | | | | | | | | | | | | 3 | | | | | 1 | | 1 | | 8 | 11 | |
| | C. | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 11 | |
| 11 | W. | 8 | | | | | | | | | | 2 | | 1 | | | 1 | | | | | | 1 | | | 8 | 10 | |
| | C. | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 | 11 | |
| 12 | W. | 8 | | | | | | | | | | | | | | | | | | | | | | | | 8 | 10 | |
| | C. | 1 | 1 | | 2 | | | | | | | | 1 | | | | 2 | | | | | | | | | 1 | 7 | |
| 13 | W. | 5 | | | 2 | | | | | | | | | | | | | | | | | | | | | 5 | 15 | |
| | C. | 2 | | | 1 | | | | | | | 1 | | 1 | | | | | | | | 1 | | | | 2 | 7 | |
| 14 | W. | 7 | | | 3 | | | | | | | | | | | | 3 | 1 | | | | | | | | 7 | 14 | |
| | C. | 6 | | | 1 | | | | | | | | | | | | 1 | 2 | | | | 1 | | | | 6 | 11 | |
| 15 | W. | 3 | | | 1 | | | | | | | | 1 | | | | | | | | | | | | | 3 | 7 | |
| | C. | 3 | | | 1 | | | | | | | | | | | | | | | | | | | | | 3 | 14 | |
| 16 | W. | 6 | | | 3 | | | | | | | | | | | | 2 | | | | | | | | | 6 | 15 | |
| | C. | 8 | | | 1 | | | | | | | | | | | | 3 | 1 | | | | | 1 | | | 8 | 19 | |
| 17 | W. | 9 | | | 3 | | | | | | | | | 1 | | | 4 | | | | | 2 | | | | 9 | 12 | |
| | C. | 6 | | | | | | | | | | | | | | | 4 | | | | | | | | | 6 | 17 | |
| 18 | W. | 5 | | | 1 | | | | | | | | | | | | 1 | | | | | 2 | | | | 5 | 11 | |
| | C. | 5 | | | 1 | | | | | | | | | | | | | | | | | | | | | 5 | 8 | |
| 19 | W. | 3 | | | | | | | | | | | | | | | 1 | | | | | 1 | | | | 3 | 6 | |
| | C. | 5 | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | 5 | 7 | |
| 20 | W. | 1 | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 4 | 8 |
| | C. | 4 | | | 3 | | | | | | | | | | | | 1 | | | | | | | | | 4 | 6 | |
| 21 | W. | 3 | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | 3 | 7 | |
| | C. | 4 | | | | | | | | | | | | | | | | | | | | | | | | 4 | 8 | |
| 22 | W. | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 | 15 | |
| | C. | 12 | | | 3 | | | | | | | | | | | | 2 | 1 | | | | 2 | | | | 12 | 19 | |
| 23 | W. | 3 | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | 3 | 12 | |
| | C. | 12 | | | 2 | | | | | | | | | | | | 1 | 1 | | | | 3 | | | | 12 | 17 | |
| 24 | W. | 6 | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | 6 | 12 | |
| | C. | 7 | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | 7 | 15 | |
| 25 | W. | 4 | | | | | | | | | | | | | | | | | | | | | | | | 4 | 11 | |
| | C. | 7 | | | 1 | | | | | | | | | | | | 2 | | | | | 1 | | | | 7 | 12 | |
| 26 | W. | 7 | | | | | | | | | | | | | | | 2 | | | | | | | | | 7 | 15 | |
| | C. | 7 | | | 2 | | | | | | | | | | | | 1 | 1 | | | | | | | | 7 | 11 | |
| 27 | W. | 9 | | | 2 | | | | | | | | | | | | 1 | | | | | | | | | 9 | 12 | |
| | C. | 2 | | | | | | | | | | | | | | | | | | | | 1 | | | | 2 | 16 | |
| 28 | W. | 5 | | | 1 | | | | | | | | | | | | | | | | | | | | | 5 | 7 | |
| | C. | 5 | | | 1 | | | | | | | | | | | | | | | | | | | | | 5 | 12 | |
| 29 | W. | 9 | | | 3 | | | | | | | | | | | | | | | | | | | | | 9 | 12 | |
| | C. | 7 | | | 3 | | | | | | | | | | | | 1 | | | | | | | | | 7 | 16 | |
| 30 | W. | 2 | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 | 12 | |
| | C. | 10 | | | 1 | | | | | | | | | | | | 1 | 3 | | | | | | | | 10 | 12 | |
| 31 | W. | 6 | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | 6 | 11 | |
| | C. | 5 | | | | | | | | | | | | | | | | | | | | | | | | 5 | 11 | |
| Total.. | W. | 208 | 3 | 1 | 49 | 55 | 12 | 3 | 2 | 1 | 10 | 7 | 7 | 1 | 0 | 32 | 15 | 5 | 4 | 31 | 16 | 4 | 5 | 68 | 212 | 361 | | |
| | C. | 143 | 6 | | 22 | 67 | 13 | 3 | 0 | 1 | 0 | 2 | 8 | 0 | 4 | 21 | 12 | 5 | 1 | 22 | 8 | 0 | 3 | 56 | 149 | | | |
| Means.. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE X CONTINUED.—DECEMBER, 1887.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 11 p. m. | | | |
| 30.78 | 61.7 | 24.3 | 30.0 | 16.8 | 13.2 | 21.0 | 11.3 | N. | NE. | N. | 155 | ..... | 1 |
| 30.50 | 67.7 | 36.7 | 45.0 | 22.9 | 22.1 | 32.7 | 26.3 | N. | SW. | NW. | 91 | T | 2 |
| 80.32 | 64.0 | 46.0 | 55.7 | 35.0 | 20.7 | 40.3 | 34.0 | NW. | S. | NE. | 58 | ..... | 3 |
| 30.16 | 75.3 | 49.0 | 58.9 | 39.9 | 19.0 | 45.0 | 41.0 | NE. | SE. | S. | 102 | ..... | 4 |
| 30.10 | 58.0 | 46.3 | 51.9 | 32.0 | 19.9 | 40.3 | 30.0 | NW. | NW. | N. | 206 | *.22 | 5 |
| 30.25 | 52.7 | 37.3 | 49.3 | 31.3 | 18.0 | 31.3 | 19.7 | N. | N. | S. | 89 | ..... | 6 |
| 30.14 | 56.0 | 41.3 | 51.0 | 27.0 | 24.0 | 35.0 | 25.0 | 0 | S. | SE. | 76 | T | 7 |
| 30.12 | 66.3 | 44.7 | 53.5 | 37.6 | 15.9 | 40.0 | 34.0 | 0 | NE. | N. | 59 | *.01 | 8 |
| 30.28 | 75.3 | 42.7 | 49.2 | 34.4 | 14.8 | 39.3 | 34.3 | NE. | E. | NE. | 149 | *.03 | 9 |
| 29.91 | 94.7 | 54.3 | 58.8 | 41.3 | 17.5 | 53.7 | 53.3 | NE. | SE. | S. | 126 | *.89 | 10 |
| 29.79 | 83.3 | 53.0 | 59.0 | 46.2 | 12.8 | 50.3 | 47.7 | W. | NW. | NW. | 85 | *.04 | 11 |
| 29.98 | 55.3 | 44.3 | 51.0 | 36.5 | 14.5 | 38.0 | 28.7 | NW. | NW. | N. | 237 | ..... | 12 |
| 30.20 | 68.7 | 39.0 | 47.5 | 30.4 | 17.1 | 35.0 | 28.7 | SW. | S. | S. | 53 | ..... | 13 |
| 30.16 | 86.7 | 39.3 | 45.3 | 28.2 | 17.1 | 37.7 | 35.7 | W. | S. | S. | 49 | ..... | 14 |
| 29.82 | 77.3 | 42.7 | 44.7 | 40.1 | 4.6 | 39.3 | 35.0 | SE. | N. | NW. | 195 | *.92 | 15 |
| 29.94 | 58.3 | 36.0 | 42.0 | 32.5 | 9.5 | 31.0 | 22.0 | NW. | NW. | W. | 243 | ..... | 16 |
| 29.50 | 83.7 | 32.0 | 36.2 | 28.3 | 7.9 | 30.7 | 28.3 | 0 | N. | NW. | 122 | †.64 | 17 |
| 29.55 | 64.7 | 35.7 | 38.8 | 29.7 | 9.1 | 32.0 | 25.0 | W. | W. | NW. | 304 | ..... | 18 |
| 30.01 | 59.3 | 38.3 | 45.0 | 35.0 | 10.0 | 33.3 | 24.7 | W. | W. | W. | 129 | ..... | 19 |
| 29.89 | 88.7 | 34.3 | 38.6 | 29.7 | 8.9 | 33.7 | 31.3 | N. | NE. | NW. | 98 | *†.51 | 20 |
| 29.95 | 64.0 | 37.7 | 45.0 | 33.5 | 11.5 | 33.0 | 25.0 | W. | NW. | NW. | 180 | ..... | 21 |
| 29.97 | 48.3 | 31.7 | 38.5 | 27.0 | 11.5 | 26.3 | 13.3 | SW. | NW. | NW. | 164 | ..... | 22 |
| 29.94 | 61.3 | 29.3 | 36.5 | 21.9 | 14.6 | 25.7 | 16.3 | SW. | S. | SE. | 85 | ..... | 23 |
| 29.66 | 69.0 | 33.0 | 37.5 | 27.2 | 10.3 | 29.7 | 24.0 | NE. | N. | N. | 130 | ..... | 24 |
| 29.80 | 81.3 | 33.7 | 38.8 | 30.0 | 8.8 | 31.3 | 27.7 | NW. | NW. | NW. | 143 | T | 25 |
| 29.86 | 80.3 | 32.7 | 36.9 | 29.8 | 7.1 | 30.7 | 26.7 | E. | E. | E. | 60 | T | 26 |
| 30.03 | 79.7 | 36.7 | 41.0 | 30.8 | 10.2 | 34.3 | 30.7 | E. | SE. | SE. | 95 | (*) | 27 |
| 29.72 | 71.7 | 35.3 | 46.7 | 21.2 | 25.5 | 32.3 | 26.0 | SE. | NW. | W. | 304 | .63 | 28 |
| 30.19 | 52.3 | 19.3 | 28.0 | 14.9 | 10.1 | 15.7 | 3.7 | NW. | NW. | NW. | 423 | ..... | 29 |
| 30.39 | 61.7 | 21.0 | 26.7 | 14.2 | 12.5 | 18.0 | 9.0 | W. | NW. | NW. | 191 | ..... | 30 |
| 30.24 | 91.3 | 26.3 | 31.5 | 21.2 | 10.3 | 25.7 | 24.0 | E. | S. | E. | 97 | †.42 | 31 |
| 931.15 | 2,161.6 | 1,153.9 | 1,358.5 | 926.5 | 429.0 | 1,042.3 | 843.4 | ..... | ..... | ..... | 4,498 | 4.31 | |
| 30.037 | 69.7 | 37.2 | 43.7 | 29.9 | 13.8 | 33.6 | 27.2 | NW. | NW. | NW. | 145.1 | .139 | |

T in rain-fall column indicates precipitation inappreciable. * Rain and snow. † Snow. ‡ Sleet.
 The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.
 Barometer corrected for temperature and instrumental error only.

TABLE X CONTINUED.—JANUARY, 1884.

| | | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|------------|-----------|--|--|---------------------------------------|--|----------------|--------|-------------|---------------------|----------------|-----------------|--------------|------------|-------------|--------------------------|-----------|-------------------|-------------------------------------|-------------|-------------------------------|---------------------|-------------------------|---------------|----|
| Day of month. | Color. | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | | | | | | | Mortality. | | | | | | | | | | Total deaths, by color. | Total deaths. | |
| | | | Accidents and negligence. | Homicides. | Suicides. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under, less those by violence. | Scarlet fever. | Croup. | Diphtheria. | Diarrheal diseases. | Typhoid fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Pleurisy. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | | | |
| 1..... | W. | 2 | | | | 2 | 2 | | | | | | | | | | 1 | | | | | | | | 1 | 2 | 9 | |
| | C. | 6 | 1 | | | 1 | 1 | | | | | | | 1 | | 1 | 1 | 1 | | | | 1 | | | 2 | 7 | 12 | |
| 2..... | W. | 6 | | | | 1 | 5 | | | | | | | | | | 3 | 1 | | | | | | | 1 | 6 | 9 | |
| | C. | 7 | | | | 2 | 2 | | | | | | | | | 2 | 1 | 1 | 1 | | | | | 1 | 2 | 7 | 10 | |
| 3..... | W. | 2 | | | | | | | | | | | | | | 1 | | | | | | | | | | 2 | 6 | 9 |
| | C. | 6 | 1 | | | 1 | 2 | | | | | | 1 | | 2 | | | 1 | | | 1 | 1 | | | 1 | 4 | 10 | |
| 4..... | W. | 3 | | | | 1 | 2 | | | | | | | | | | | | | | | | | | 1 | 7 | 12 | |
| | C. | 6 | 1 | | 1 | 2 | 2 | | | | | | | | | | 3 | | | | 1 | | | | 3 | 5 | 12 | |
| 5..... | W. | 4 | | | | 1 | 2 | | | | | | | | | | | | | | 2 | | | 1 | 2 | 5 | 12 | |
| | C. | 5 | 1 | | | 2 | 2 | 1 | | | 1 | | | | | | | 2 | | | 1 | | | | 2 | 5 | 12 | |
| 6..... | W. | 7 | | | | 1 | 4 | | | | | | | | | | 2 | | | | 2 | 1 | | | 3 | 7 | 12 | |
| | C. | 7 | 1 | | | 1 | 3 | | | | | | | | | | 1 | | 1 | | 2 | | | 1 | 2 | 8 | 15 | |
| 7..... | W. | 5 | 2 | | | | 1 | | | | | | | | | | 1 | | | | 1 | 2 | | | 1 | 7 | 15 | |
| | C. | 10 | | | | 2 | 3 | | | | | 2 | | 1 | 1 | | 1 | 1 | | | 5 | | | | 10 | 18 | 18 | |
| 8..... | W. | 8 | | | | 2 | 3 | | | | | | | | | | 3 | 1 | | | | | | | 3 | 8 | 18 | |
| | C. | 7 | | | | 1 | 1 | | | | | | | | | 2 | 1 | 2 | | 1 | 1 | 2 | | | 1 | 7 | 14 | |
| 9..... | W. | 7 | | | | 1 | 3 | | | | | | | | | | 1 | | 2 | | | | | | 1 | 7 | 14 | |
| | C. | 7 | | | | 3 | 2 | 1 | 1 | | | | 1 | | | 3 | 2 | 1 | 1 | | | 2 | | | 2 | 7 | 13 | |
| 10..... | W. | 6 | | | | 4 | 3 | | | | | | | | | 1 | 2 | 1 | 1 | | | | | | 3 | 6 | 13 | |
| | C. | 7 | 1 | | | 2 | 4 | | | | | | | 1 | | 1 | 1 | | | | 2 | 1 | | | 3 | 8 | 12 | |
| 11..... | W. | 4 | | | | 1 | 2 | | | | | | | | | | 1 | | | | 1 | | | | 2 | 4 | 12 | |
| | C. | 6 | | | | 4 | 5 | 2 | 2 | | | 1 | | | | 1 | 1 | | | | 1 | | | 1 | 2 | 6 | 14 | |
| 12..... | W. | 8 | | | | 2 | 2 | 1 | | | | | | | 1 | | 1 | 1 | | | 1 | | | | 4 | 8 | 16 | |
| | C. | 7 | 1 | | | 1 | 4 | | | | | | | 1 | | 1 | 1 | | 1 | | | | | | 1 | 7 | 16 | |
| 13..... | W. | 3 | | | | 1 | 4 | | | | | | | | | | 1 | 1 | | | | | | | 1 | 3 | 10 | |
| | C. | 7 | | | | 1 | 1 | | | | | | | | | 2 | 1 | 1 | | | 1 | | | | 3 | 7 | 10 | |
| 14..... | W. | 9 | | | | 4 | 1 | | | | | | | | | | 2 | 2 | | | 1 | | | | 2 | 9 | 19 | |
| | C. | 9 | | 1 | | 3 | 6 | 1 | 1 | | | | | | | | 1 | 1 | 1 | | 1 | | | | 10 | 9 | 19 | |
| 15..... | W. | 4 | | | | 1 | 1 | | | | | | | | | | 1 | | | | 2 | | | | 1 | 4 | 6 | |
| | C. | 2 | | | | 2 | 2 | | | | | | | | | 1 | | 1 | | | 3 | | | | 2 | 5 | 10 | |
| 16..... | W. | 5 | | | | 1 | 2 | | | | | | | | | | 1 | 1 | | | 1 | | | | 1 | 2 | 5 | 10 |
| | C. | 8 | | | | 3 | 4 | | | | | | | | | | 1 | 1 | 1 | | 1 | | | | 3 | 5 | 13 | |
| 17..... | W. | 5 | | | | 1 | 3 | 1 | | | | | | | | | 1 | 1 | | | 1 | | | | 1 | 4 | 13 | |
| | C. | 4 | | | | 5 | 2 | | | | | | | | | 2 | 1 | | | | 1 | | | | 1 | 5 | 12 | |
| 18..... | W. | 13 | | | | 7 | 1 | | | | | | | | | | 1 | 1 | | | | | | | 4 | 8 | 12 | |
| | C. | 3 | 1 | | | 1 | 2 | | | | | | | 1 | | | 1 | 1 | 1 | | 3 | 2 | | | 13 | 4 | 17 | |
| 19..... | W. | 6 | | | | 2 | 6 | 1 | | | | | | | | | 1 | 1 | | | | | | | 3 | 7 | 16 | |
| | C. | 9 | 1 | | | 1 | 3 | | | | | | | | | | 1 | 2 | | | | 1 | | | 5 | 9 | 16 | |
| 20..... | W. | 5 | | | | 2 | 5 | | | | | | | | | | | | | | 1 | | | | 1 | 5 | 11 | |
| | C. | 6 | | | | 2 | 3 | 2 | 1 | | 2 | | | | | | | | | | 3 | | | | 2 | 6 | 11 | |
| 21..... | W. | 4 | | | | 1 | 1 | | | | | | | | | | 2 | | | | 1 | | | | 1 | 4 | 8 | |
| | C. | 10 | | | | 4 | 7 | | | | | | | | | 1 | 2 | | 1 | | | | | | 2 | 10 | 21 | |
| 22..... | W. | 11 | | | | 2 | 2 | 2 | | | | | | | | | 1 | 1 | | | 4 | | | | 5 | 11 | 14 | |
| | C. | 8 | | | | 3 | 4 | | | | | | | | | | 2 | | 1 | | 2 | 1 | | | 2 | 8 | 14 | |
| 23..... | W. | 6 | | | | 2 | 2 | | | | | | | | | | 1 | 2 | | | 1 | | | | 2 | 6 | 14 | |
| | C. | 7 | | | | 2 | 2 | | | | | | | | | | 1 | 1 | 1 | | 1 | | | | 3 | 7 | 14 | |
| 24..... | W. | 9 | 2 | | | 1 | 3 | | | 1 | | | | | | | 2 | | 1 | | 2 | | | | 2 | 11 | 15 | |
| | C. | 4 | | | | 2 | 2 | | | | | | | 1 | | | 1 | | | | | 1 | | | 2 | 4 | 14 | |
| 25..... | W. | 8 | | | | 3 | 2 | 1 | | | | | | | | | 2 | 2 | | | 1 | | | | 3 | 8 | 14 | |
| | C. | 6 | | | | 1 | 1 | | | | | | | | | | 1 | 1 | | | 1 | | | | 2 | 6 | 14 | |
| 26..... | W. | 7 | | | | 2 | 2 | | | | | | | | | | 1 | 1 | | | 1 | | | | 2 | 7 | 14 | |
| | C. | 9 | | | | 3 | 3 | | | | | | | | | | 2 | | 1 | | 2 | | | | 2 | 11 | 15 | |
| 27..... | W. | 4 | | | | 2 | 2 | | | | | | | | | | 1 | | | | | | | | 2 | 4 | 14 | |
| | C. | 8 | | | | 3 | 2 | 1 | | | | | | 1 | | | 2 | 2 | | | 1 | | | | 3 | 6 | 14 | |
| 28..... | W. | 7 | | | | 1 | 3 | | | | | | | | | | 1 | | | | 4 | | | | 2 | 7 | 11 | |
| | C. | 4 | | | | 2 | 2 | | | | | | | | | | 2 | 1 | | | | | | | 1 | 4 | 11 | |
| 29..... | W. | 6 | | | | 3 | 2 | | | | | | | | | | 1 | | | | 1 | | | | 2 | 6 | 14 | |
| | C. | 7 | | | | 1 | 3 | | | | | | | | | | 2 | 1 | | | 4 | | | | 3 | 7 | 11 | |
| 30..... | W. | 4 | | | | 2 | 2 | | | | | | | | | | 1 | | | | | | | | 2 | 4 | 11 | |
| | C. | 7 | | | | 3 | 1 | | | | | | | | | | 2 | 2 | | | | | | | 1 | 7 | 11 | |
| 31..... | W. | 13 | | | | 4 | 2 | | | | | | | | | | 2 | 5 | | | 1 | 2 | | | 2 | 13 | 20 | |
| | C. | 7 | | | | 3 | 2 | 1 | | | | | | | | | 1 | | | | 1 | | | | 5 | 7 | 20 | |
| Total | W. | 214 | 6 | | 1 | 68 | 49 | 6 | 3 | 1 | 3 | 3 | 4 | 6 | 1 | 31 | 28 | 5 | 8 | 1 | 40 | 16 | 2 | 12 | 53 | 221 | 408 | |
| Mean | C. | 180 | 6 | | 1 | 30 | 91 | 13 | 5 | 1 | 1 | 1 | 2 | 1 | 21 | 29 | 14 | 3 | | 22 | 13 | 1 | 3 | 68 | 187 | | | |

TABLE X CONTINUED.—JANUARY, 1888.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|-----------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rainfall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 10 p. m. | | | |
| 29.76 | 100.0 | 39.3 | 46.0 | 30.8 | 14.2 | 39.3 | 39.3 | E. | NW. | NW. | 65 | .85 | 1 |
| 30.01 | 63.3 | 32.7 | 45.8 | 29.0 | 16.8 | 28.7 | 20.7 | NW. | ..... | NW. | 198 | ..... | 2 |
| 30.06 | 68.3 | 34.7 | 42.0 | 26.7 | 15.3 | 31.0 | 24.3 | SW. | NW. | NW. | 78 | ..... | 3 |
| 30.09 | 71.0 | 38.7 | 47.5 | 29.2 | 18.3 | 34.7 | 29.3 | NW. | S. | SW. | 55 | ..... | 4 |
| 30.15 | 67.3 | 39.7 | 43.8 | 35.2 | 8.6 | 35.3 | 29.0 | NW. | N. | N. | 73 | ..... | 5 |
| 30.05 | 76.7 | 34.0 | 41.2 | 31.3 | 9.9 | 31.7 | 27.0 | NE. | SE. | NE. | 95 | T | 6 |
| 29.78 | 77.3 | 44.0 | 53.5 | 32.3 | 21.2 | 41.0 | 37.0 | NE. | NE. | NW. | 40 | T | 7 |
| 29.88 | 75.3 | 45.7 | 53.2 | 41.0 | 12.2 | 42.3 | 37.7 | NW. | N. | NW. | 163 | T | 8 |
| 30.25 | 89.3 | 32.0 | 42.1 | 29.7 | 12.4 | 30.7 | 28.7 | NW. | E. | S. | 93 | .31 | 9 |
| 29.94 | 66.7 | 36.7 | 43.7 | 30.0 | 13.7 | 32.7 | 25.3 | S. | NW. | NW. | 138 | .04 | 10 |
| 30.34 | 56.0 | 25.0 | 37.0 | 17.0 | 20.0 | 21.0 | 10.7 | NW. | NW. | NW. | 273 | ..... | 11 |
| 30.67 | 65.3 | 20.7 | 26.8 | 12.5 | 14.3 | 18.3 | 10.7 | NW. | NE. | SE. | 127 | T | 12 |
| 30.17 | 97.7 | 32.3 | 37.0 | 24.0 | 13.0 | 32.3 | 31.7 | SE. | SW. | SW. | 52 | .70 | 13 |
| 30.38 | 77.0 | 36.3 | 45.6 | 27.0 | 18.6 | 33.7 | 28.7 | W. | N. | E. | 62 | ..... | 14 |
| 30.17 | 83.0 | 39.0 | 51.0 | 34.0 | 17.0 | 36.7 | 33.7 | SW. | SE. | NW. | 111 | .05 | 15 |
| 30.68 | 65.3 | 22.0 | 36.6 | 19.7 | 16.9 | 19.3 | 12.0 | NW. | N. | N. | 229 | .... | 16 |
| 30.23 | 100.0 | 21.3 | 31.6 | 18.2 | 13.4 | 24.3 | 24.3 | E. | NE. | NW. | 88 | .26 | 17 |
| 29.95 | 72.0 | 26.7 | 34.0 | 21.5 | 12.5 | 23.7 | 18.0 | SW. | NW. | NW. | 260 | ..... | 18 |
| 30.12 | 64.0 | 22.3 | 27.2 | 18.0 | 9.2 | 19.3 | 11.7 | NW. | NW. | NW. | 167 | ..... | 19 |
| 30.06 | 68.3 | 23.3 | 35.8 | 13.3 | 22.5 | 23.0 | 16.3 | W. | S. | S. | 56 | ..... | 20 |
| 30.36 | 58.7 | 19.3 | 33.5 | 14.5 | 19.0 | 16.3 | 6.7 | NW. | NW. | NW. | 220 | ..... | 21 |
| 30.51 | 61.0 | 15.3 | 25.0 | 9.4 | 15.6 | 13.0 | 4.0 | NW. | N. | SE. | 82 | ..... | 22 |
| 30.22 | 75.3 | 24.7 | 31.0 | 19.0 | 12.0 | 22.7 | 18.0 | SE. | SE. | SE. | 78 | T | 23 |
| 30.31 | 67.0 | 28.3 | 34.0 | 23.0 | 11.0 | 25.3 | 18.3 | NW. | NW. | NW. | 157 | ..... | 24 |
| 29.97 | 89.7 | 21.7 | 27.7 | 15.9 | 11.8 | 21.0 | 19.0 | NE. | NE. | NW. | 108 | .60 | 25 |
| 29.74 | 65.3 | 27.0 | 34.0 | 20.6 | 13.4 | 24.0 | 16.3 | ..... | NW. | NW. | 301 | ..... | 26 |
| 29.86 | 67.0 | 20.0 | 28.0 | 13.0 | 15.0 | 17.7 | 10.3 | W. | NW. | NW. | 319 | T | 27 |
| 29.99 | 60.7 | 13.7 | 20.7 | 9.2 | 11.5 | 11.7 | 3.0 | NW. | NW. | NW. | 386 | ..... | 28 |
| 30.02 | 72.7 | 20.3 | 29.0 | 11.0 | 18.0 | 18.3 | 12.0 | NW. | NW. | N. | 121 | .03 | 29 |
| 29.85 | 70.3 | 30.3 | 41.7 | 22.0 | 19.7 | 27.3 | 21.3 | E. | SE. | NE. | 54 | ..... | 30 |
| 29.89 | 91.3 | 34.0 | 37.8 | 27.0 | 10.8 | 33.0 | 31.3 | N. | N. | NE. | 72 | .15 | 31 |
| 933.37 | 2,282.8 | 906.4 | 1,162.8 | 705.0 | 457.8 | 829.3 | 656.3 | NW. | NW. | NW. | 4,321 | 2.99 | |
| 30.109 | 73.6 | 29.2 | 37.5 | 22.7 | 14.8 | 26.8 | 21.2 | ..... | ..... | ..... | 139.4 | .096 | |

T in rain fall column indicates precipitation inappreciable.
The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.
Barometer corrected for temperature and instrumental error only.

TABLE X CONTINUED.—FEBRUARY, 1868.

| Day of month. | Color. | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|-----------|--|--|---------------------------------------|--|---|----------------|--------|-------------|---------------------|----------------|-----------------|--------------|------------|-------------|----------------------|-------------------|-------------------------------------|-------------|-------------------------------|---------------------|-------------------------|---------------|----|--|
| | | Total deaths, less those by violence. | Deaths by violence. | | Deaths by ages. | | | | | Scarlet fever. | Croup. | Diphtheria. | Diarrheal diseases. | Typhoid fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of lungs. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths, by color. | Total deaths. | | |
| | | | Accidents and negligence. | Suicides. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under, less those by violence. | | | | | | | | | | | | | | | | | | | | |
| 1..... | W. | 8 | 1 | | 3 | 3 | 1 | 1 | | | | | | | | | 2 | | | | 1 | | | 1 | 4 | 9 | 12 | |
| | C. | 3 | | | 1 | 1 | | | | | | | | | | 1 | 1 | | | 1 | | | | 3 | 3 | 12 | | |
| 2..... | W. | 7 | | 1 | 2 | 3 | | | | | | | | | | 1 | 1 | | 1 | | | | | 3 | 8 | 12 | | |
| | C. | 4 | | | 2 | 1 | | | | | | | | | | | 1 | | | | 1 | | | 4 | 4 | 12 | | |
| 3..... | W. | 13 | | | 4 | 5 | | 1 | 1 | | | | | | | 2 | 2 | 1 | 2 | 3 | 2 | | 1 | 12 | 13 | 25 | | |
| | C. | 12 | | | | 7 | | 1 | | | | | | | | 2 | 2 | 1 | 1 | 2 | 1 | | | 3 | 12 | | | |
| 4..... | W. | 8 | | 1 | 2 | 2 | | 1 | 1 | | | | 1 | | | | 1 | | 1 | 2 | 2 | | 1 | 3 | 9 | 14 | | |
| | C. | 5 | | | 1 | 3 | | 1 | | | | | | | | 1 | | | | | 2 | | | 2 | 5 | 14 | | |
| 5..... | W. | 8 | | | 1 | 2 | | | | | 2 | | | | | 2 | 1 | | | | | | | 3 | 8 | 16 | | |
| | C. | 7 | 1 | | | 3 | | 1 | | | | | | | | 2 | 1 | | 1 | | | | 3 | 8 | 16 | | | |
| 6..... | W. | 7 | | | 3 | 1 | | | | | | | 1 | | | | 1 | | 1 | 3 | | | | 2 | 7 | 17 | | |
| | C. | 10 | | | 3 | 5 | | 1 | | | | | | | | 2 | 2 | | | 2 | | | | 3 | 10 | 17 | | |
| 7..... | W. | 10 | | | 1 | 5 | | 1 | | | | | | | | 2 | 2 | | | | | | | 3 | 10 | 11 | | |
| | C. | 1 | | | | 1 | | | | | | | | | | | 2 | | | | | | | 1 | 1 | 11 | | |
| 8..... | W. | 10 | | | 2 | 4 | | 1 | 1 | | | | | | | | 1 | | 3 | | | | | 6 | 10 | 17 | | |
| | C. | 7 | | | 1 | 4 | | | | | | | | | | 3 | 3 | | 1 | | | | | 7 | 7 | 17 | | |
| 9..... | W. | 6 | | | 2 | 1 | | | | | | | | | | 1 | 2 | | | | 1 | | 2 | 6 | 12 | | | |
| | C. | 6 | | | 1 | 2 | | 1 | | | | | | | | 2 | 1 | | | | | | | 6 | 6 | 12 | | |
| 10..... | W. | 12 | | | 2 | 3 | | 1 | 1 | | | | | | | 2 | | | 2 | | | | | 6 | 12 | 18 | | |
| | C. | 6 | | | | 4 | | 1 | 1 | | | | | | | | 2 | | 1 | 1 | | 1 | | 4 | 6 | 18 | | |
| 11..... | W. | 6 | | | 1 | 1 | | | | | | 1 | | | | 1 | | | 1 | | | | | 4 | 6 | 16 | | |
| | C. | 10 | | | 2 | 4 | | 1 | | | | | | | | 4 | 1 | | 1 | | | | | 1 | 10 | 16 | | |
| 12..... | W. | 12 | | | 3 | 3 | | | | | | | | | | 1 | 2 | | 1 | | 2 | | | 5 | 12 | 17 | | |
| | C. | 5 | | | 1 | 4 | | | | | | | | | | 1 | | | | | | | | 1 | 5 | 17 | | |
| 13..... | W. | 7 | | | 2 | | | | | | | | | | | 2 | | | | | 3 | | 2 | 7 | 12 | | | |
| | C. | 4 | 1 | | | 1 | | | | | | | | | | 1 | 1 | | 1 | | | | | 1 | 5 | 12 | | |
| 14..... | W. | 16 | | 1 | 3 | 8 | | 2 | 1 | | | | 2 | | | 1 | 3 | | 3 | | 1 | | | 5 | 17 | 25 | | |
| | C. | 8 | | | 1 | 5 | | 2 | 1 | | | | | | | 1 | | | 3 | | | | | 3 | 8 | 25 | | |
| 15..... | W. | 5 | | | 2 | 2 | | | | | | | | | | 3 | | | 3 | | | | | 1 | 5 | 14 | | |
| | C. | 9 | | | 1 | 4 | | 1 | 1 | | 1 | | | | | 1 | | 1 | | 1 | | | | 3 | 9 | 14 | | |
| 16..... | W. | 9 | | | 1 | 4 | | 1 | | 1 | | | | | | 1 | 1 | | 1 | | | | | 5 | 9 | 16 | | |
| | C. | 7 | | | | 3 | | 2 | | 2 | | | | | | 1 | 1 | 2 | | | | | | 2 | 7 | 16 | | |
| 17..... | W. | 6 | 1 | | 1 | 1 | | | | | | | | | | 2 | 2 | | | 1 | | | | 7 | 7 | 14 | | |
| | C. | 8 | | | 1 | 3 | | 1 | | | | | 1 | | | 1 | | | | 2 | | | | 1 | 8 | 14 | | |
| 18..... | W. | 6 | | | | 3 | | | | | | | | | | 1 | 1 | | | 1 | | | | 2 | 6 | 15 | | |
| | C. | 9 | | | 6 | | | | | | | | | | | 2 | 1 | 1 | | | | | | 3 | 9 | 15 | | |
| 19..... | W. | 8 | | | 2 | 2 | | | | | 2 | | | 1 | | 1 | 2 | | 1 | 2 | | | | 3 | 8 | 13 | | |
| | C. | 5 | | | | 2 | | | | | | | | | | 1 | | | | | | | | 1 | 5 | 13 | | |
| 20..... | W. | 3 | | | 1 | 1 | | | | | | | | | | | | | 1 | | | | | 2 | 3 | 8 | | |
| | C. | 5 | | | | 1 | | | | | | | | | | 2 | | 1 | | | | | | 1 | 5 | 8 | | |
| 21..... | W. | 6 | | | 2 | 1 | | | | | | | | | | 1 | | | 2 | | | | | 3 | 6 | 8 | | |
| | C. | 2 | | | 1 | | | | | | | | | | | | 1 | | | | | | | 2 | 2 | 8 | | |
| 22..... | W. | 9 | | | 2 | 2 | | | | | | | | | | | 1 | | 2 | | | | | 5 | 9 | 15 | | |
| | C. | 6 | | | 1 | 1 | | | | | | | | | | 1 | | | | | | | | 3 | 6 | 15 | | |
| 23..... | W. | 7 | | | 3 | 2 | | | | | | | | | | 1 | 2 | 1 | | | | | | 3 | 7 | 12 | | |
| | C. | 5 | | | | 2 | | | | | | | | | | 1 | 1 | 1 | | | | | | 1 | 5 | 12 | | |
| 24..... | W. | 13 | | | 4 | 2 | | | | | | | | | | 2 | | 1 | | 4 | | | | 4 | 13 | 20 | | |
| | C. | 7 | | | 1 | 3 | | 1 | 1 | | | | | | | 1 | | | 1 | | | | | 3 | 7 | 20 | | |
| 25..... | W. | 7 | | 1 | 2 | | | | | | | | | | | 3 | | | | 1 | | | | 4 | 4 | 12 | | |
| | C. | 4 | | | | 3 | | | | | | | | | | | 5 | | | | | | | 2 | 4 | 12 | | |
| 26..... | W. | 11 | | | 5 | 1 | | | | | | | | | | | | | 1 | | | | | 2 | 11 | 15 | | |
| | C. | 3 | 1 | | | 2 | | 1 | | | | | | | | 5 | 2 | | | | | | | 3 | 4 | 15 | | |
| 27..... | W. | 7 | | | 4 | 1 | | | | | | | | | | 3 | | | | | | | | 3 | 7 | 13 | | |
| | C. | 6 | | | | 5 | | | | | | | | | | | 1 | 1 | | | | | | 3 | 6 | 13 | | |
| 28..... | W. | 8 | | | 2 | 1 | | | | | | | | 1 | | | 2 | | | 2 | | | | 1 | 8 | 14 | | |
| | C. | 6 | | | 2 | 1 | | 1 | 1 | | | | 1 | | | 1 | 1 | | | 1 | | | | 2 | 6 | 14 | | |
| 29..... | W. | 10 | | | 4 | 2 | | 1 | | | | | | 1 | | | | | 1 | | | | | 10 | 10 | 19 | | |
| | C. | 8 | 1 | | 1 | 5 | | 1 | | | | | | | | 1 | 1 | | 1 | 4 | | 2 | | 4 | 9 | 19 | | |
| Total • | W. | 245 | 2 | 4 | 66 | 66 | 10 | 6 | 3 | 3 | 2 | 3 | 6 | 0 | 38 | 26 | 8 | 5 | 35 | 14 | 4 | 12 | 86 | 251 | 433 | | | |
| Mean | C. | 178 | 4 | 0 | 22 | 86 | 17 | 7 | 0 | 1 | 0 | 2 | 1 | 3 | 31 | 22 | 10 | 5 | 27 | 11 | 0 | 6 | 59 | 182 | | | | |

TABLE X CONTINUED—FEBRUARY, 1888.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|----------------|----------|----------|--------|----------------------|-----------------------|--------------------|--------|---------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulbs. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a.m. | 3 p.m. | 10 p.m. | | | |
| 30.18 | 79.3 | 34.0 | 38.5 | 29.2 | 9.3 | 31.7 | 27.7 | N. | NW. | 0 | 98 | ..... | 1 |
| 30.28 | 77.3 | 31.7 | 40.0 | 24.0 | 16.0 | 29.0 | 25.0 | NW. | NW. | 0 | 71 | ..... | 2 |
| 30.16 | 79.3 | 35.7 | 46.0 | 24.5 | 21.5 | 33.3 | 29.7 | 0 | SW. | N. | 48 | ..... | 3 |
| 29.81 | 98.3 | 35.7 | 39.3 | 32.0 | 7.3 | 35.3 | 35.0 | NE | N. | SW. | 88 | .48 | 4 |
| 29.73 | 85.7 | 42.7 | 51.6 | 34.2 | 17.4 | 40.3 | 38.0 | SW. | NW. | N. | 99 | .08 | 5 |
| 29.97 | 70.3 | 38.0 | 43.0 | 34.5 | 8.5 | 34.3 | 29.0 | N. | NW. | E. | 130 | .03 | 6 |
| 29.83 | 94.7 | 35.0 | 39.2 | 32.4 | 6.8 | 34.7 | 33.3 | NE. | NE. | N. | 73 | *.03 | 7 |
| 29.63 | 80.0 | 36.0 | 43.4 | 30.8 | 12.6 | 33.7 | 30.0 | S. | W. | NW. | 101 | .40 | 8 |
| 29.95 | 74.3 | 28.0 | 33.0 | 23.5 | 9.5 | 26.0 | 20.3 | NE. | NW. | N. | 126 | T | 9 |
| 30.07 | 97.3 | 15.3 | 25.2 | 13.3 | 11.9 | 15.3 | 14.7 | NE. | N. | N. | 151 | *.16 | 10 |
| 29.81 | 96.7 | 26.7 | 32.0 | 13.8 | 18.2 | 26.0 | 25.3 | N. | NW. | NW. | 133 | †.42 | 11 |
| 29.95 | 95.7 | 32.0 | 32.6 | 30.5 | 2.1 | 31.3 | 30.7 | N. | N. | E. | 96 | *.28 | 12 |
| 30.09 | 88.0 | 33.7 | 43.9 | 26.3 | 17.6 | 32.3 | 30.0 | NW. | NW. | 0 | 82 | T | 13 |
| 30.03 | 74.7 | 37.3 | 53.0 | 21.7 | 31.3 | 34.0 | 29.3 | S. | SE. | 0 | 45 | ..... | 14 |
| 30.43 | 63.3 | 26.0 | 48.3 | 19.4 | 28.9 | 23.3 | 15.3 | NW. | NW | NW. | 312 | ..... | 15 |
| 30.34 | 61.7 | 22.3 | 32.7 | 12.6 | 20.1 | 19.3 | 11.0 | N. | SW. | S. | 107 | ..... | 16 |
| 29.85 | 59.3 | 41.3 | 56.0 | 26.2 | 29.8 | 35.7 | 26.7 | S. | SE. | E. | 87 | ..... | 17 |
| 29.94 | 69.3 | 40.3 | 51.3 | 31.6 | 19.7 | 36.3 | 30.3 | 0 | NW. | N. | 123 | ..... | 18 |
| 30.14 | 74.0 | 42.0 | 52.4 | 30.2 | 22.2 | 38.7 | 33.7 | 0 | S. | SE. | 79 | ..... | 19 |
| 29.77 | 91.0 | 53.3 | 61.0 | 44.3 | 16.7 | 52.0 | 51.0 | S. | S. | SW. | 127 | .10 | 20 |
| 30.01 | 48.3 | 48.3 | 58.6 | 44.8 | 13.8 | 40.0 | 28.7 | NW. | NW. | S. | 167 | ..... | 21 |
| 30.20 | 62.3 | 44.0 | 56.4 | 31.1 | 25.3 | 38.3 | 30.7 | W. | NW. | NE. | 82 | ..... | 22 |
| 30.10 | 68.3 | 42.0 | 52.2 | 32.5 | 19.7 | 37.7 | 31.7 | E. | S. | NE. | 96 | ..... | 23 |
| 36.03 | 77.0 | 40.7 | 47.0 | 33.0 | 14.0 | 37.3 | 33.3 | NE. | E. | E. | 156 | .01 | 24 |
| 29.46 | 86.3 | 50.0 | 59.0 | 38.8 | 20.2 | 48.0 | 45.7 | NE. | W. | SW. | 136 | 1.12 | 25 |
| 29.68 | 50.0 | 42.0 | 51.0 | 35.4 | 15.6 | 35.8 | 23.7 | NW. | SE. | NW. | 156 | .01 | 26 |
| 29.86 | 67.0 | 26.3 | 36.3 | 18.5 | 17.8 | 23.3 | 15.3 | NW. | NW. | NW. | 262 | *.06 | 27 |
| 30.28 | 56.3 | 22.3 | 31.0 | 13.5 | 17.5 | 19.0 | 8.3 | NW. | NW. | SW. | 243 | ..... | 28 |
| 30.23 | 65.0 | 34.0 | 38.2 | 24.0 | 14.2 | 30.3 | 22.7 | S. | NE. | NE. | 65 | .01 | 29 |
| 869.81 | 2,190.7 | 1,036.6 | 1,292.1 | 806.6 | 485.5 | 951.7 | 806.1 | ..... | ..... | ..... | 3,539 | 3.19 | |
| 29.993 | 75.5 | 35.7 | 44.6 | 27.8 | 16.7 | 32.8 | 27.8 | NW. | NW. | N. | 122.0 | .110 | |

T in rain-fall column indicates precipitation inappreciable. * Snow. † Sleet.
The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.
Barometer corrected for temperature and instrumental error only.

TABLE X CONTINUED.—MARCH, 1888.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 10 p. m. | | | |
| 30.20 | 78.7 | 43.0 | 51.8 | 33.5 | 18.3 | 40.0 | 36.7 | NE. | S. | NE. | 58 | *T | 1 |
| 30.07 | 89.0 | 40.7 | 47.0 | 37.8 | 9.2 | 39.3 | 37.7 | NE. | NE. | E. | 144 | *T | 2 |
| 30.01 | 63.0 | 40.7 | 50.2 | 34.5 | 15.7 | 35.3 | 27.3 | NW. | NW. | NW. | 266 | .01 | 3 |
| 30.08 | 63.3 | 30.7 | 37.0 | 24.3 | 12.7 | 27.0 | 18.7 | NW. | W. | N. | 229 | ..... | 4 |
| 29.84 | 93.0 | 22.7 | 32.8 | 20.0 | 12.8 | 22.3 | 20.7 | N. | N. | NW. | 114 | †.42 | 5 |
| 29.90 | 69.7 | 20.7 | 29.8 | 10.0 | 19.8 | 18.7 | 10.7 | NW. | NW. | NW. | 114 | ..... | 6 |
| 29.96 | 61.3 | 30.3 | 38.6 | 16.4 | 22.2 | 26.0 | 17.0 | NW. | W. | SW. | 128 | ..... | 7 |
| 30.11 | 50.3 | 36.3 | 44.0 | 28.3 | 15.7 | 30.3 | 18.0 | W. | NW. | NW. | 239 | ..... | 8 |
| 30.30 | 52.0 | 38.0 | 47.2 | 29.8 | 17.4 | 32.0 | 22.6 | NW. | NW. | NE. | 195 | ..... | 9 |
| 30.30 | 55.7 | 41.0 | 52.0 | 28.0 | 24.0 | 35.0 | 25.3 | NE. | SE. | SE. | 121 | ..... | 10 |
| 29.87 | 94.7 | 36.3 | 49.9 | 28.0 | 21.9 | 35.0 | 35.0 | E. | NW. | NW. | 267 | *†1.65 | 11 |
| 29.94 | 57.0 | 22.3 | 30.5 | 18.0 | 12.5 | 19.0 | 9.0 | NW. | NW. | NW. | 548 | †T | 12 |
| 29.69 | 65.7 | 15.3 | 24.8 | 13.6 | 10.2 | 13.3 | 6.3 | NW. | NW. | NW. | 589 | †T | 13 |
| 29.93 | 65.7 | 26.7 | 35.8 | 13.0 | 22.8 | 23.7 | 16.7 | NW. | NW. | NW. | 433 | †T | 14 |
| 30.12 | 62.3 | 37.7 | 48.6 | 27.8 | 20.8 | 33.0 | 25.3 | NW. | NW. | NW. | 222 | ..... | 15 |
| 29.80 | 61.0 | 48.0 | 66.4 | 32.5 | 33.9 | 41.0 | 32.0 | NW. | SW. | NW. | 136 | *.01 | 16 |
| 29.75 | 56.7 | 39.0 | 46.0 | 35.5 | 10.5 | 33.7 | 24.3 | N. | N. | N. | 152 | ..... | 17 |
| 30.01 | 46.0 | 34.7 | 45.6 | 25.7 | 19.9 | 28.7 | 15.0 | N. | N. | E. | 91 | ..... | 18 |
| 30.07 | 63.3 | 45.3 | 60.4 | 29.7 | 30.7 | 40.0 | 33.3 | E. | SE. | S. | 115 | ..... | 19 |
| 29.75 | 94.0 | 52.3 | 58.6 | 45.8 | 12.8 | 52.0 | 51.0 | S. | S. | S. | 167 | *.44 | 20 |
| 29.42 | 78.0 | 51.3 | 68.8 | 36.2 | 32.6 | 48.0 | 43.7 | S. | NW. | NW. | 293 | *.50 | 21 |
| 29.90 | 62.0 | 29.0 | 44.0 | 20.0 | 24.0 | 26.0 | 17.7 | NW. | W. | NW. | 319 | †T | 22 |
| 30.17 | 48.7 | 26.3 | 33.7 | 15.8 | 17.9 | 21.7 | 8.0 | NW. | NW. | NW. | 317 | ..... | 23 |
| 30.19 | 75.3 | 30.7 | 36.8 | 24.7 | 12.1 | 28.3 | 23.7 | NE. | N. | W. | 78 | †.04 | 24 |
| 30.37 | 81.0 | 32.7 | 36.2 | 30.1 | 6.1 | 31.0 | 27.3 | NE. | E. | E. | 142 | *†.15 | 25 |
| 30.08 | 97.7 | 36.0 | 41.8 | 31.2 | 10.6 | 35.3 | 35.0 | NE. | NW. | N. | 108 | *.69 | 26 |
| 29.98 | 93.7 | 46.7 | 52.4 | 37.4 | 15.0 | 45.7 | 44.7 | N. | N. | NE. | 69 | *.20 | 27 |
| 29.77 | 92.7 | 50.0 | 59.0 | 43.4 | 15.6 | 48.7 | 47.7 | NE. | SE. | E. | 62 | *.21 | 28 |
| 29.91 | 61.3 | 47.3 | 50.3 | 43.2 | 7.1 | 41.7 | 34.3 | NW. | NW. | 0 | 169 | *.21 | 29 |
| 30.10 | 65.7 | 50.3 | 63.0 | 33.7 | 29.3 | 44.3 | 38.3 | 0 | S. | S. | 142 | ..... | 30 |
| 29.95 | 52.7 | 59.0 | 75.6 | 45.0 | 30.6 | 49.0 | 39.3 | S. | W. | N. | 127 | *T | 31 |
| 929.54 | 2,151.2 | 1,161.0 | 1,458.6 | 897.9 | 560.7 | 1,045.0 | 841.7 | ..... | ..... | ..... | 6,152 | 4.53 | |
| 29.985 | 69.4 | 37.5 | 47.1 | 29.0 | 18.1 | 33.7 | 27.2 | NW. | NW. | NW. | 198.5 | .146 | |

T in rain fall column indicates precipitation inappreciable. * Rain. † Snow.
 The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.
 Barometer corrected for temperature, elevation above sea, and instrumental error only.

TABLE X CONTINUED.—APRIL, 1888.

| | | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|------------|-----------|--|--|---------------------------------------|--|----------------|--------|-------------|---------------------|----------------|-----------------|--------------|------------|-------------|--------------------------|-----------|-------------------|-------------------------------------|-------------|-------------------------------|---------------------|-------------------------|---------------|----|
| Day of month. | Color. | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | Scarlet fever. | Croup. | Diphtheria. | Diarrheal diseases. | Typhoid fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Pleurisy. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | Total deaths, by color. | Total deaths. | |
| | | | Accidents and negligence. | Homicides. | Suicides. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One-day old and under, less those by violence. | | | | | | | | | | | | | | | | | | | |
| 1..... | W. | 6 | | | | | | | 1 | | | 1 | | | | 1 | 1 | 1 | | | 1 | | | 1 | 2 | 6 | 12 | |
| 2..... | W. | 5 | 2 | | | 2 | 2 | | | | | | | | 1 | 2 | 1 | 1 | | | 2 | | | | 3 | 7 | 11 | |
| 3..... | W. | 4 | | | | | 2 | | | | | | | | | 1 | 1 | | 1 | | 2 | | 1 | 2 | 4 | 7 | 17 | |
| 4..... | W. | 7 | | | | 1 | 4 | 1 | | | | | 1 | | | 2 | 1 | | | | 2 | | | 2 | 4 | 10 | 10 | |
| 5..... | W. | 3 | | | | | 1 | 1 | | | | | | | | 1 | 1 | | | | 1 | | | 1 | 1 | 3 | 14 | |
| 6..... | W. | 5 | 1 | | | 1 | 1 | 2 | | | | | | | | 3 | 1 | | | | 2 | | | 1 | 5 | 9 | 10 | |
| 7..... | W. | 5 | | 1 | | 1 | 3 | | | | 1 | | | | | 1 | | | | | 1 | | | 1 | 5 | 5 | 10 | |
| 8..... | W. | 4 | | | | 1 | 2 | 1 | | | | | | | | 1 | 1 | | | | 1 | | | 2 | 5 | 5 | 8 | |
| 9..... | W. | 5 | | | | 1 | 2 | 1 | | | | | | | | 1 | 1 | | | | 1 | | | 1 | 2 | 5 | 12 | |
| 10..... | W. | 7 | | | | 1 | 4 | 2 | 2 | | | | | | | 1 | 1 | | | | 1 | | | 2 | 4 | 7 | 11 | |
| 11..... | W. | 2 | | | | 1 | 3 | | | 1 | | | 1 | 1 | | 4 | | | | | 1 | | 1 | | 1 | 2 | 17 | |
| 12..... | W. | 9 | | | | 3 | 2 | 1 | 1 | | | 1 | | | | 1 | 3 | 1 | | | 2 | | | 6 | 5 | 12 | 16 | |
| 13..... | W. | 7 | | | | 3 | 2 | 3 | 2 | | | | | | | 1 | | | | | 1 | | 2 | 3 | 4 | 9 | 16 | |
| 14..... | W. | 4 | | | 1 | 1 | 2 | | | | | | | | | 1 | 1 | | | | 1 | | | 4 | 7 | 5 | 12 | |
| 15..... | W. | 7 | | | | 1 | 4 | | | | | | | 1 | | 1 | | | | | | | | 3 | 4 | 7 | 12 | |
| 16..... | W. | 3 | | | | 1 | 1 | 4 | | | | | | | | 4 | 2 | | | | 2 | | | 1 | 1 | 3 | 12 | |
| 17..... | W. | 9 | | | | 3 | 2 | | | | | | | | | 1 | 1 | | | | 1 | | | 1 | 1 | 4 | 14 | |
| 18..... | W. | 4 | | | | 1 | 1 | 1 | | | | | | | | 2 | 1 | | | | 1 | | | 3 | 4 | 9 | 13 | |
| 19..... | W. | 10 | | | | 3 | 2 | | | | | | | | 1 | 2 | 1 | | | | 2 | | 2 | 3 | 10 | 7 | 14 | |
| 20..... | W. | 4 | | | | 1 | 1 | 2 | 1 | | | | | | | 4 | 1 | | | | 1 | | | 4 | 1 | 9 | 13 | |
| 21..... | W. | 5 | 1 | 1 | | 1 | 2 | | | | | | | | | 4 | 2 | | | | 1 | 1 | | 5 | 7 | 6 | 15 | |
| 22..... | W. | 5 | 1 | | | 1 | 4 | 1 | 1 | | | | | | | 1 | 1 | | | | 1 | | | 8 | 8 | 7 | 15 | |
| 23..... | W. | 8 | | | | 1 | 4 | 2 | 1 | | | | | 1 | | 1 | 2 | | | | 1 | | | 3 | 1 | 3 | 7 | 7 |
| 24..... | W. | 7 | | | | 1 | 2 | | | | | | | | | 1 | 1 | | | | 1 | | 1 | 1 | 4 | 4 | 7 | 7 |
| 25..... | W. | 3 | | | | 1 | 1 | | | | | | | | | 1 | 1 | | | | 1 | | | 2 | 1 | 3 | 4 | 7 |
| 26..... | W. | 4 | | | | 1 | 1 | | | | | | | | | 1 | 1 | | | | 1 | | | 1 | 1 | 9 | 9 | 12 |
| 27..... | W. | 9 | | | | 1 | 3 | | | | | | | | | 2 | 1 | | | | 2 | | | 2 | 1 | 3 | 9 | 19 |
| 28..... | W. | 8 | | | 1 | 2 | 2 | 1 | | | | | | | | 3 | 1 | | | | 2 | 1 | 1 | 3 | 2 | 10 | 9 | 19 |
| 29..... | W. | 10 | | | | 1 | 3 | 1 | | | | | | | 1 | 3 | 1 | | | | 1 | | | 2 | 1 | 10 | 10 | 13 |
| 30..... | W. | 3 | | | | 1 | | | | | | | | | | 2 | | | | | | | | | 1 | 3 | 7 | 10 |
| 31..... | W. | 7 | | | | 1 | | | | | | | | | | 1 | 1 | | | | 1 | | | 4 | 1 | 3 | 7 | 10 |
| 32..... | W. | 3 | | | | 1 | 2 | 1 | 1 | | | | | | | 3 | 1 | | | | 1 | | | 1 | 2 | 3 | 8 | 14 |
| 33..... | W. | 8 | | | | 1 | 3 | 1 | 1 | | | | | | | 1 | 1 | | | | | | | 1 | 3 | 6 | 6 | 14 |
| 34..... | W. | 6 | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | | 14 |
| Total. | W. | 203 | 5 | 1 | 2 | 52 | 61 | 4 | 2 | 2 | 2 | 5 | 5 | 1 | 1 | 27 | 22 | 2 | 2 | 1 | 34 | 10 | 4 | 11 | 74 | 211 | 407 | |
| Mean. | C. | 192 | 3 | 1 | | 19 | 74 | 18 | 11 | 1 | | | 2 | 6 | 4 | 46 | 20 | 2 | 4 | | 24 | 8 | 7 | 3 | 65 | 196 | | |

TABLE X CONTINUED.—APRIL, 1888.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 10 p. m. | | | |
| 29.87 | 65.3 | 51.0 | 62.0 | 44.1 | 17.9 | 45.3 | 38.7 | NE. | S. | SE. | 154 | ..... | 1 |
| 29.56 | 48.3 | 63.7 | 79.0 | 47.6 | 31.4 | 51.7 | 39.0 | SW. | NW. | NW. | 208 | ..... | 2 |
| 30.04 | 46.3 | 51.3 | 61.3 | 45.0 | 16.3 | 42.3 | 30.3 | N. | NE. | NE. | 144 | ..... | 3 |
| 30.27 | 61.0 | 49.7 | 61.8 | 40.2 | 21.6 | 43.3 | 35.7 | S. | SE. | SE. | 125 | ..... | 4 |
| 29.97 | 88.0 | 57.0 | 70.3 | 45.1 | 25.2 | 55.0 | 53.3 | E. | S. | S. | 145 | .28 | 5 |
| 29.99 | 58.0 | 62.0 | 70.8 | 54.8 | 16.0 | 53.7 | 45.7 | NW. | NW. | 0 | 239 | .12 | 6 |
| 30.10 | 41.0 | 55.7 | 65.0 | 50.3 | 14.7 | 45.0 | 31.3 | NW. | W. | NW. | 234 | ..... | 7 |
| 30.25 | 52.0 | 43.3 | 52.9 | 38.4 | 18.1 | 36.7 | 26.7 | N. | N. | S. | 153 | ..... | 8 |
| 30.30 | 61.3 | 47.0 | 57.8 | 33.4 | 24.4 | 41.0 | 34.0 | NE. | SE. | SE. | 141 | ..... | 9 |
| 29.92 | 93.3 | 52.7 | 60.7 | 42.6 | 18.1 | 51.7 | 50.7 | SE. | S. | SW. | 250 | .77 | 10 |
| 29.98 | 65.7 | 56.0 | 63.0 | 50.6 | 12.4 | 50.0 | 44.3 | W. | NW. | NW. | 240 | .03 | 11 |
| 30.08 | 68.3 | 48.0 | 66.6 | 40.3 | 26.3 | 43.3 | 38.0 | S. | NW. | NW. | 251 | T | 12 |
| 30.18 | 61.3 | 41.7 | 52.6 | 31.8 | 20.8 | 36.7 | 29.3 | NW. | W. | SE. | 170 | ..... | 13 |
| 29.80 | 46.0 | 51.3 | 66.6 | 41.0 | 25.6 | 42.0 | 29.0 | S. | NW. | NW. | 357 | ..... | 14 |
| 29.92 | 61.7 | 46.0 | 57.0 | 37.6 | 19.4 | 40.3 | 32.3 | NW. | NW. | SE. | 153 | .12 | 15 |
| 29.92 | 73.3 | 46.0 | 54.0 | 41.0 | 13.0 | 42.3 | 37.7 | N. | NW. | NW. | 160 | .05 | 16 |
| 30.23 | 50.0 | 47.3 | 57.5 | 35.2 | 22.3 | 39.3 | 28.0 | N. | SE. | SE. | 115 | ..... | 17 |
| 29.95 | 53.3 | 57.7 | 74.5 | 42.4 | 32.1 | 48.7 | 40.0 | S. | SE. | NW. | 199 | ..... | 18 |
| 29.91 | 68.7 | 50.7 | 62.0 | 46.0 | 16.0 | 45.7 | 40.3 | 0 | S. | S. | 103 | T | 19 |
| 29.87 | 60.3 | 46.0 | 52.8 | 40.0 | 12.8 | 40.0 | 31.7 | NW. | NW. | NW. | 283 | ..... | 20 |
| 29.96 | 54.3 | 43.3 | 50.0 | 35.0 | 15.0 | 37.3 | 27.0 | W. | NW. | NW. | 252 | ..... | 21 |
| 29.88 | 77.0 | 47.7 | 57.8 | 40.0 | 17.8 | 44.3 | 40.3 | NW. | SE. | E. | 93 | .18 | 22 |
| 29.85 | 61.3 | 48.0 | 56.0 | 41.3 | 14.7 | 42.0 | 33.3 | N. | NW. | NW. | 222 | .34 | 23 |
| 30.19 | 52.0 | 44.7 | 52.5 | 37.0 | 15.5 | 37.7 | 27.0 | NW. | NW. | NW. | 236 | ..... | 24 |
| 30.46 | 47.7 | 46.0 | 57.7 | 33.2 | 24.5 | 38.3 | 26.7 | N. | SE. | S. | 109 | ..... | 25 |
| 30.43 | 51.7 | 54.7 | 68.0 | 38.7 | 29.3 | 45.7 | 36.0 | S. | S. | S. | 117 | ..... | 26 |
| 30.29 | 47.3 | 64.3 | 81.5 | 43.3 | 38.2 | 52.0 | 40.7 | 0 | SE. | E. | 63 | ..... | 27 |
| 30.10 | 51.7 | 66.7 | 84.3 | 47.8 | 36.5 | 54.7 | 45.3 | E. | S. | 0 | 64 | ..... | 28 |
| 29.86 | 50.0 | 73.3 | 89.0 | 54.2 | 34.8 | 59.7 | 50.0 | 0 | W. | 0 | 75 | ..... | 29 |
| 29.67 | 58.3 | 74.0 | 88.0 | 58.0 | 30.0 | 63.0 | 56.7 | 0 | S. | S. | 92 | ..... | 30 |
| 900.80 | 1,774.4 | 1,586.8 | 1,933.0 | 1,272.3 | 660.7 | 1,368.7 | 1,119.0 | ..... | ..... | ..... | 5,147 | 1.89 | |
| 30.027 | 59.1 | 52.9 | 64.4 | 42.4 | 22.0 | 45.6 | 37.3 | NW. | NW. | NW. | 171.6 | .063 | |

T in rain-fall column indicates precipitation inappreciable.
 The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.
 Barometer corrected for temperature, elevation above sea, and instrumental error only.

TABLE X CONTINUED.—MAY, 1888.

| | | Mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|---------------------------------------|---------------------------|------------|-----------|--|--|---------------------------------------|--|--------|-------------|---------------------|----------------|-----------------------|-----------------|--------------|------------|-------------|--------------------------|-----------|-------------------|-------------------------------------|-------------|-------------------------------|---------------------|-----|-------------------------|---------------|
| Day of month. | Color. | Total deaths, less those by violence. | Deaths by violence. | | | Deaths by ages. | | | | | | | | | | | | | | | | | | | | | Total deaths, by color. | Total deaths. |
| | | | Accidents and negligence. | Homicides. | Suicides. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under, less those by violence. | Croup. | Diphtheria. | Diarrheal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Pleurisy. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | Diseases of digestive organs. | All other diseases. | | | |
| 1..... | W. | 6 | | | | 1 | 4 | | | | | | | | | | | | | 1 | 1 | | 1 | 4 | 6 | 11 | | |
| | C. | 4 | 1 | | | 1 | 3 | 1 | | | 1 | | | | 3 | | | | | 1 | 1 | | 1 | 2 | 5 | 11 | | |
| 2..... | W. | 2 | 1 | | | 1 | 2 | | | | | | | | | | | | | | | | | | 2 | 11 | | |
| | C. | 2 | | | | 1 | 1 | | | | | | | | | | | | | | | | | | 2 | 11 | | |
| 3..... | W. | 7 | | | | 2 | 1 | | | | | | | | 2 | | | | | | 1 | | | 2 | 7 | 11 | | |
| | C. | 3 | | 1 | | | 2 | 1 | 1 | | | | | | | | | | | 1 | 1 | | | 2 | 4 | 11 | | |
| 4..... | W. | 9 | | | | 3 | 6 | 1 | 1 | | | | | | 1 | 1 | | | | 1 | 1 | | 1 | 7 | 9 | 17 | | |
| | C. | 8 | | | | 3 | 1 | | 1 | | | | | 1 | 1 | | | | | 1 | 1 | | 3 | 8 | 8 | 17 | | |
| 5..... | W. | 6 | | | | 3 | | | | | | | | | 1 | 1 | | | | 1 | 1 | 1 | | 6 | 6 | 13 | | |
| | C. | 7 | | | | | 3 | 1 | | | | | | 1 | 2 | | | | | 1 | 1 | | 3 | 7 | 7 | 13 | | |
| 6..... | W. | 3 | 1 | | | 1 | 1 | | | | | | | | | | | | | | | 1 | 1 | 4 | 4 | 11 | | |
| | C. | 7 | | | | 1 | 2 | | | | | | | | 1 | 1 | | | | 1 | 1 | | 1 | 2 | 7 | 11 | | |
| 7..... | W. | 4 | | | | | | | | | | | | | 1 | | | | | 1 | | | 1 | 4 | 4 | 10 | | |
| | C. | 4 | 2 | | | | 2 | | | | | | | | 2 | | | | | | 1 | | | 6 | 6 | 10 | | |
| 8..... | W. | 3 | | | | 1 | | | | | | | | | | 2 | | | | 1 | | | | 3 | 3 | 8 | | |
| | C. | 5 | | | | | 3 | 1 | 1 | 1 | 1 | | | | | 3 | 1 | | | | 1 | | 2 | 5 | 7 | 9 | | |
| 9..... | W. | 7 | | | | 1 | 3 | | | | | | | | | 3 | | | | 1 | | | | 1 | 7 | 9 | | |
| | C. | 2 | | | | 1 | 3 | | | | | | | | 1 | 1 | | | | | | | 4 | 5 | 8 | | | |
| 10..... | W. | 3 | | | | 3 | 1 | | | | | | | | | 1 | 1 | | | | | | | 3 | 3 | 8 | | |
| | C. | 3 | | | | 1 | 1 | | | | | | | | | | | | | | | | | 1 | 3 | 8 | | |
| 11..... | W. | 3 | | | | 1 | 2 | | | | | | | | | | | | | | 2 | | | 1 | 3 | 7 | | |
| | C. | 4 | | | | 1 | 2 | | | | | | | | 1 | | | 1 | | | | | 1 | 4 | 4 | 7 | | |
| 12..... | W. | 4 | | 1 | | 2 | 2 | | | | | | | | | | | | | 1 | | | 3 | 5 | 11 | | | |
| | C. | 5 | 1 | | | | 2 | | | | | | | | | 1 | | | | 1 | 2 | | 1 | 6 | 6 | 11 | | |
| 13..... | W. | 4 | | | | 1 | 2 | | | | | | | | | 1 | | | | 1 | | | | 4 | 4 | 7 | | |
| | C. | 2 | 1 | | | | 2 | 1 | | | | | | | | | | | | | | | 1 | 3 | 3 | 7 | | |
| 14..... | W. | 9 | | | | 4 | 2 | | | | | | | | | 1 | | | | 1 | | | 5 | 9 | 14 | | | |
| | C. | 5 | | | | | 1 | | | | | | | | 2 | | | 1 | | 1 | | | | 5 | 5 | 14 | | |
| 15..... | W. | 2 | | | | | | | | 1 | | | | | | | | | | 1 | | | | 2 | 8 | 8 | | |
| | C. | 6 | | | | 1 | 4 | 2 | 1 | | | | | | | 1 | | | | 2 | | 1 | 3 | 6 | 7 | 11 | | |
| 16..... | W. | 4 | | | | 1 | 2 | | | | | | | | 1 | 1 | | | | | | | 1 | 4 | 4 | 11 | | |
| | C. | 7 | | | | 1 | 4 | 1 | | | | | | | 1 | 2 | | | | 1 | | | 1 | 7 | 7 | 11 | | |
| 17..... | W. | 11 | | | | 6 | 2 | 1 | 1 | | | | | | 1 | 1 | | | 2 | 1 | | | 5 | 11 | 15 | 15 | | |
| | C. | 4 | | | | 2 | 2 | | | | | | | | | | | | | 2 | 1 | | 1 | 4 | 4 | 15 | | |
| 18..... | W. | 5 | | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | 5 | 9 | 9 | | |
| | C. | 4 | | | | 1 | 1 | | | | | | 1 | | | | | | | 1 | | | 3 | 4 | 4 | 9 | | |
| 19..... | W. | 6 | | | | 3 | 1 | | | | | | | | 1 | | | | 1 | 1 | | 1 | 2 | 6 | 6 | 10 | | |
| | C. | 4 | | | | 1 | 2 | | | | | | | 1 | 1 | | | | | | | | 1 | 4 | 4 | 10 | | |
| 20..... | W. | 6 | | | | 1 | 2 | | | | | | | 1 | 1 | 1 | | | | | 1 | | 1 | 6 | 6 | 11 | | |
| | C. | 5 | | | | 3 | 4 | 1 | | | | | | | 1 | 1 | | | 3 | | 1 | | | 5 | 5 | 11 | | |
| 21..... | W. | 4 | | | | 1 | 2 | 1 | | | | | | | | | | | 2 | 1 | | | 1 | 4 | 4 | 8 | | |
| | C. | 4 | | | | 1 | 3 | | | | | | | | 1 | | | | | 2 | | | | 4 | 4 | 8 | | |
| 22..... | W. | 5 | | | | 1 | | | | | | | | | 2 | | | | | 2 | | | 1 | 5 | 5 | 11 | | |
| | C. | 6 | | | | 1 | 3 | 2 | 1 | | | | | | 1 | | | | | | 1 | | 4 | 6 | 6 | 11 | | |
| 23..... | W. | 4 | 1 | | 1 | 2 | 1 | | | 1 | | | | | 1 | | | | | | | | 2 | 6 | 6 | 12 | | |
| | C. | 6 | | | | 2 | 1 | | | | 1 | | | | | | | | | 1 | | | 3 | 6 | 6 | 12 | | |
| 24..... | W. | 9 | | | | 3 | 2 | | | | | | | 1 | | 2 | | | | 3 | 1 | | | 9 | 9 | 19 | | |
| | C. | 10 | | | | 1 | 6 | | | | | | | | 2 | 1 | | | 1 | 2 | | 1 | 3 | 10 | 7 | 19 | | |
| 25..... | W. | 7 | | | | 2 | | | | | | | | | 1 | | | | | 2 | 1 | | | 7 | 7 | 10 | | |
| | C. | 3 | | | | | 2 | | | | | | | | 1 | | | | | 1 | | | | 3 | 3 | 10 | | |
| 26..... | W. | 5 | 1 | | | | 2 | | | | | | | | 1 | 1 | | | | | | | 1 | 6 | 6 | 11 | | |
| | C. | 5 | | | | | 3 | | | | | | | | 1 | | | | | 3 | | | | 5 | 5 | 11 | | |
| 27..... | W. | 11 | | | | 4 | 3 | 1 | 1 | | | | | | 2 | 1 | | | | 2 | | | 6 | 11 | 7 | 18 | | |
| | C. | 7 | | | | 1 | 5 | 1 | | | | | | | 4 | | | 1 | | | | | 2 | 7 | 5 | 10 | | |
| 28..... | W. | 4 | 1 | | | 1 | 1 | | | | | | | | 1 | | | | | 2 | | | | 5 | 5 | 10 | | |
| | C. | 5 | | | | | 2 | | | | | | | | 1 | 1 | | | | | 1 | | 2 | 5 | 4 | 11 | | |
| 29..... | W. | 4 | | | | 1 | 2 | 1 | 1 | | | | | | 1 | | | | | | | | 1 | 3 | 7 | 11 | | |
| | C. | 7 | | | | 1 | 1 | | | | | | | | 1 | 2 | | | | | | | 3 | 4 | 7 | 11 | | |
| 30..... | W. | 5 | | | | 2 | 3 | | | | | | | | | | | | | | | | 1 | 5 | 5 | 10 | | |
| | C. | 5 | | | | | 2 | | | | | | | | 2 | | | | | | | | 1 | 2 | 5 | 10 | | |
| 31..... | W. | 8 | | | | 2 | 4 | 3 | 1 | | | | | | | | | | | 3 | 2 | | | 3 | 8 | 15 | | |
| | C. | 7 | | | | | 4 | 3 | | | | | | | 1 | | | | | 2 | | | 3 | 7 | 7 | 15 | | |
| Total | W. | 178 | 5 | | 2 | 56 | 53 | 8 | 6 | 2 | 1 | 1 | 2 | 1 | 4 | 20 | 16 | 3 | | 3 | 29 | 14 | 2 | 12 | 185 | 347 | | |
| Mean | C. | 156 | 5 | 1 | | 22 | 71 | 16 | 4 | | 2 | 4 | 1 | 1 | 2 | 30 | 9 | 1 | 4 | 1 | 28 | 12 | 1 | 13 | 162 | | | |

TABLE X CONTINUED.—MAY, 1888.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------|----------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a. m. | 3 p. m. | 10 p. m. | | | |
| 29.70 | 67.0 | 62.0 | 76.0 | 52.5 | 23.5 | 55.3 | 50.3 | 0 | NW. | NW. | 159 | .10 | 1 |
| 29.98 | 54.0 | 51.3 | 58.3 | 44.4 | 13.9 | 43.3 | 34.3 | NW. | NW. | E. | 238 | ..... | 2 |
| 30.12 | 61.3 | 53.0 | 64.3 | 38.6 | 25.7 | 46.0 | 39.0 | 0 | SE. | SE. | 122 | ..... | 3 |
| 29.98 | 72.3 | 63.0 | 74.5 | 49.2 | 25.3 | 56.7 | 52.7 | S. | SW. | SE. | 227 | .05 | 4 |
| 29.96 | 67.7 | 68.7 | 80.2 | 60.0 | 20.2 | 61.3 | 57.0 | S. | S. | N. | 145 | .02 | 5 |
| 30.10 | 64.7 | 66.7 | 79.2 | 49.8 | 29.4 | 58.3 | 53.3 | 0 | S. | SW. | 80 | ..... | 6 |
| 30.10 | 59.0 | 69.7 | 79.0 | 51.8 | 24.2 | 57.7 | 42.7 | NE. | E. | SE. | 121 | ..... | 7 |
| 30.01 | 73.0 | 63.0 | 68.5 | 59.0 | 9.5 | 57.7 | 54.3 | E. | E. | NE. | 122 | †T | 8 |
| 29.84 | 79.0 | 70.3 | 80.5 | 58.8 | 21.7 | 65.3 | 63.0 | S. | SW. | S. | 150 | .60 | 9 |
| 29.85 | 83.7 | 69.0 | 77.2 | 65.2 | 12.0 | 65.3 | 63.7 | SW. | SE. | S. | 179 | .01 | 10 |
| 29.74 | 95.3 | 66.3 | 70.5 | 63.2 | 7.3 | 65.7 | 65.3 | E. | NE. | N. | 125 | .27 | 11 |
| 29.65 | 84.3 | 71.0 | 82.4 | 63.4 | 19.0 | 67.0 | 65.3 | NW. | S. | SW. | 96 | †.55 | 12 |
| 29.79 | 72.0 | 61.0 | 73.0 | 52.4 | 20.6 | 55.3 | 51.3 | NW. | SE. | NW. | 130 | †.17 | 13 |
| 29.73 | 75.0 | 55.7 | 64.2 | 48.4 | 15.8 | 51.0 | 47.0 | E. | W. | NW. | 120 | .14 | 14 |
| 29.91 | 56.7 | 51.3 | 57.0 | 44.8 | 12.2 | 44.3 | 35.7 | NW. | NW. | 0 | 197 | ..... | 15 |
| 29.85 | 69.3 | 54.3 | 61.0 | 46.0 | 18.0 | 49.0 | 42.7 | SE. | NW. | NW. | 118 | .10 | 16 |
| 30.06 | 57.0 | 55.3 | 63.6 | 44.0 | 19.6 | 47.3 | 38.7 | 0 | NW. | SE. | 99 | ..... | 17 |
| 29.82 | 93.0 | 55.7 | 57.8 | 51.0 | 6.8 | 54.7 | 53.3 | S. | S. | E. | 152 | .37 | 18 |
| 29.91 | 70.0 | 61.7 | 70.0 | 56.3 | 13.7 | 55.7 | 51.0 | N. | W. | NW. | 121 | T | 19 |
| 30.11 | 63.0 | 56.3 | 66.2 | 50.1 | 16.1 | 49.3 | 42.7 | N. | N. | 0 | 104 | ..... | 20 |
| 30.11 | 58.3 | 59.0 | 65.5 | 47.2 | 18.3 | 51.0 | 43.7 | NE. | SE. | 0 | 119 | ..... | 21 |
| 30.00 | 64.0 | 59.3 | 66.3 | 50.0 | 16.3 | 52.7 | 47.0 | NE. | NE. | NE. | 191 | ..... | 22 |
| 29.80 | 96.0 | 58.3 | 64.5 | 52.4 | 12.1 | 57.3 | 57.0 | NE. | NE. | NE. | 233 | .74 | 23 |
| 29.77 | 94.7 | 59.7 | 62.0 | 57.4 | 4.6 | 58.7 | 58.0 | NE. | NE. | NE. | 118 | .68 | 24 |
| 29.80 | 89.7 | 61.7 | 67.7 | 58.0 | 9.7 | 59.7 | 58.3 | 0 | SE. | E. | 75 | T | 25 |
| 29.82 | 86.7 | 63.0 | 73.5 | 56.7 | 16.8 | 60.3 | 58.7 | NE. | SW. | 0 | 68 | .25 | 26 |
| 29.78 | 81.0 | 69.0 | 79.5 | 59.0 | 20.5 | 64.7 | 62.7 | E. | S. | SE. | 74 | ..... | 27 |
| 29.67 | 75.0 | 75.0 | 86.8 | 62.0 | 24.8 | 69.0 | 66.3 | E. | S. | S. | 106 | ..... | 28 |
| 29.79 | 76.7 | 76.7 | 89.0 | 68.0 | 21.0 | 70.3 | 67.7 | 0 | S. | W. | 118 | †.15 | 29 |
| 29.83 | 84.0 | 72.7 | 79.7 | 66.8 | 12.9 | 69.3 | 67.3 | SW. | NW. | 0 | 57 | .12 | 30 |
| 29.70 | 93.7 | 63.3 | 71.4 | 61.6 | 9.8 | 62.3 | 61.3 | N. | E. | 0 | 76 | .45 | 31 |
| 926.28 | 2,308.1 | 1,943.0 | 2,212.3 | 1,691.0 | 521.3 | 1,781.5 | 1,658.3 | ..... | ..... | ..... | 4,040 | 4.77 | |
| 29.880 | 74.5 | 62.7 | 71.4 | 54.5 | 16.8 | 57.5 | 53.5 | NE. | SE. | NW. | 130.3 | .154 | |

T in rain-fall column indicates precipitation inappreciable.
 The surface of the mercury in the cistern of barometer is 103 feet above the mean level of the sea.
 Barometer corrected for temperature and instrumental error only.

† Thunder storms.

TABLE X CONTINUED.—JUNE, 1888.

| Day of month. | Color. | Total deaths, less those by violence. | Mortality. | | | | | | | | | | | | | | | | | | | Total deaths, by color. | Total deaths. | |
|---------------|--------|---------------------------------------|---------------------------|------------|--|--|---------------------------------------|--|--------|-------------|----------------------|----------------|-----------------------|-----------------|--------------|------------|-------------|--------------------------|-------------------|-------------------------------------|-------------|-------------------------|---------------|-------------------------------|
| | | | Deaths by violence. | | Deaths by ages. | | | | | | | | | | | | | | | | | | | |
| | | | Accidents and negligence. | Homicides. | 60 years and over, less those by violence. | Under 5 years, less those by violence. | Under 8 days, less those by violence. | One day old and under, less those by violence. | Croup. | Diphtheria. | Diarrhoeal diseases. | Typhoid fever. | Typho-malarial fever. | Malarial fever. | Consumption. | Pneumonia. | Bronchitis. | Congestion of the lungs. | Nervous diseases. | Diseases of the circulatory organs. | Rheumatism. | | | Diseases of digestive organs. | All other diseases. |
| 1..... | W. | 3 | | | 1 | 2 | 1 | 1 | | | 1 | | 3 | | | 1 | | 2 | | 1 | 1 | 1 | 3 | 13 |
| | C. | 2 | 2 | | 3 | 2 | 1 | 1 | | | | | | | | | | 1 | 1 | | 2 | 2 | 10 | 10 |
| 2..... | W. | 3 | | | 3 | 1 | 1 | 1 | 1 | | | | | | | | | 1 | | | | 5 | 5 | 10 |
| | C. | 4 | 1 | | 2 | | 4 | 1 | 1 | | | | | | | | | 2 | 1 | | | 3 | 5 | 11 |
| 3..... | W. | 5 | | | 1 | 1 | 1 | 4 | | | | | | | | 1 | 1 | 1 | | | | 2 | 6 | 11 |
| | C. | 5 | 1 | | | 1 | 1 | 4 | | | | | | | | | | 1 | | | | 2 | 7 | 9 |
| 4..... | W. | 7 | | | 1 | 1 | 4 | | | | | | | | | 1 | 1 | 1 | | 1 | | 1 | 2 | 9 |
| | C. | 2 | | | | 2 | 2 | 2 | | | | | | | | 1 | | | | | | 3 | 7 | 9 |
| 5..... | W. | 5 | | | | 1 | 1 | 1 | 1 | 1 | | | 2 | | | | | | 1 | | | 3 | 5 | 9 |
| | C. | 4 | | | 2 | 2 | 1 | 1 | | | | | | | | | | 1 | | | | 3 | 4 | 20 |
| 6..... | W. | 6 | 1 | | 1 | 1 | 2 | 2 | 1 | 1 | | | 1 | | | | 1 | | | | 1 | 3 | 7 | 20 |
| | C. | 13 | | | 3 | 3 | 5 | 1 | | | | | 1 | 1 | 1 | | 2 | 1 | 1 | | 1 | 4 | 13 | 12 |
| 7..... | W. | 6 | | | | | 2 | | | | | | 2 | 1 | | | 2 | 1 | 1 | 1 | | 2 | 6 | 12 |
| | C. | 6 | | | 3 | 1 | | | | | | | 1 | | | | | 1 | 1 | 1 | | 1 | 5 | 13 |
| 8..... | W. | 5 | | | 1 | | 4 | 2 | 1 | | | | 1 | | | | 1 | 1 | 1 | | 1 | 4 | 8 | 13 |
| | C. | 8 | | | | 2 | 2 | 2 | 1 | | | | | | | | | | 1 | | | 3 | 7 | 13 |
| 9..... | W. | 6 | 1 | | 1 | 1 | 2 | 2 | 1 | | | | 2 | 1 | | | 2 | | | | 3 | 2 | 6 | 13 |
| | C. | 6 | | | | 4 | 2 | 2 | 1 | | | | 1 | | | | | | | | 2 | 1 | 5 | 10 |
| 10..... | W. | 5 | | | 1 | 1 | 2 | 2 | 1 | | | | 1 | | | | | 1 | | | 2 | 1 | 5 | 10 |
| | C. | 5 | | | 1 | 1 | 2 | 2 | 1 | | | | 1 | | | | | | | | 2 | 1 | 5 | 12 |
| 11..... | W. | 7 | 1 | | 1 | 1 | 4 | 1 | | | 2 | 1 | 1 | | | | 1 | | | | 3 | 1 | 8 | 12 |
| | C. | 4 | | | 2 | 2 | 2 | 2 | | | | | | | 1 | | | 2 | | | | 1 | 4 | 11 |
| 12..... | W. | 3 | 1 | | 1 | | 3 | 1 | | | | | 1 | | | | 2 | | 1 | | 1 | 1 | 7 | 11 |
| | C. | 6 | 1 | | 3 | 3 | 2 | 1 | 1 | | | 1 | 1 | | | | 1 | 1 | | | 3 | 6 | 11 | |
| 13..... | W. | 6 | | | 1 | 1 | 2 | 1 | 1 | | | | 1 | | | | | 1 | 1 | | 2 | 5 | 10 | 11 |
| | C. | 4 | 1 | | 2 | 2 | 1 | 1 | | | | | | | | | | | | | 3 | 3 | 7 | 10 |
| 14..... | W. | 3 | | | 2 | 3 | 1 | | | | | | 1 | | | | | 1 | | | 4 | 7 | 13 | 13 |
| | C. | 6 | 1 | | 1 | 2 | 1 | | | | | | 1 | | | | 2 | 2 | | | 2 | 5 | 8 | 20 |
| 15..... | W. | 6 | 2 | | 1 | 2 | 3 | 2 | | | | | 1 | | | | 1 | 2 | 1 | | | 8 | 5 | 13 |
| | C. | 5 | | | 2 | 8 | 6 | 2 | 2 | | | | 1 | | | | | 3 | | | 2 | 11 | 9 | 20 |
| 16..... | W. | 11 | | | 8 | 6 | 7 | 1 | 2 | | | | 1 | 1 | | | 1 | 1 | | | 4 | 9 | 14 | 22 |
| | C. | 8 | 1 | | 5 | 5 | 4 | | | | | | 2 | 1 | | | 1 | 1 | | | 2 | 8 | 13 | 17 |
| 17..... | W. | 14 | | | 2 | 4 | 2 | | | | | | 1 | | | | | | | | 4 | 13 | 4 | 17 |
| | C. | 8 | 1 | | 6 | 6 | 2 | | | | | | 3 | 1 | | | 1 | 1 | | | 1 | 10 | 9 | 19 |
| 18..... | W. | 12 | | | 5 | 2 | 5 | | | | | | 1 | | | | 2 | | 1 | | 3 | 9 | 9 | 19 |
| | C. | 9 | 1 | | 1 | 6 | 5 | 1 | | | | | 3 | 4 | | | | 1 | 1 | | 1 | 2 | 10 | 18 |
| 19..... | W. | 9 | | | 2 | 8 | 1 | 1 | | | | | 1 | | | | 3 | | | | 2 | 12 | 9 | 21 |
| | C. | 9 | | | 3 | 8 | 2 | | | | | | 3 | 5 | | | 1 | | | | 2 | 10 | 13 | 23 |
| 20..... | W. | 10 | | | 1 | 13 | 1 | 1 | | | | | 6 | 1 | | | 5 | | 1 | | 4 | 21 | 11 | 32 |
| | C. | 11 | | | 1 | 9 | 2 | 2 | | | | | 5 | 1 | | | 1 | | | | 3 | 11 | 9 | 20 |
| 21..... | W. | 11 | | | | 7 | 1 | | | | | | 1 | | | | | | | | 2 | 11 | 9 | 18 |
| | C. | 9 | 1 | | | 5 | 1 | | | | | | 2 | | | | 1 | | | | 3 | 8 | 10 | 16 |
| 22..... | W. | 7 | | | | 6 | 2 | 1 | | | | | 3 | 1 | | | 2 | | | | 1 | 12 | 4 | 15 |
| | C. | 10 | 1 | | | 7 | | | | | | | 2 | | | | 1 | | | | 3 | 7 | 6 | 10 |
| 23..... | W. | 11 | | | 2 | 3 | | | | | | | 1 | | | | | | | | 1 | 12 | 8 | 18 |
| | C. | 4 | | | 1 | 4 | 3 | | | | | | 2 | 4 | | | 3 | | | | 1 | 4 | 7 | 10 |
| 24..... | W. | 8 | | | | 9 | 2 | 1 | | | | | 5 | | | | 3 | | | | 2 | 13 | 21 | 32 |
| | C. | 20 | 1 | | 1 | 13 | 1 | 1 | | | | | 6 | 1 | | | 5 | | 1 | | 4 | 21 | 11 | 32 |
| 25..... | W. | 11 | | | | 7 | 2 | 2 | | | | | 5 | 1 | | | 1 | | | | 3 | 11 | 9 | 20 |
| | C. | 11 | | | | 5 | 1 | | | | | | 1 | | | | | | | | 2 | 9 | 8 | 18 |
| 26..... | W. | 9 | | | | 5 | | | | | | | 2 | | | | 1 | | | | 2 | 10 | 12 | 16 |
| | C. | 7 | 1 | | | 6 | 2 | 1 | | | | | 3 | 1 | | | 2 | | | | 3 | 8 | 10 | 15 |
| 27..... | W. | 10 | | | | 7 | | | | | | | 2 | | | | | | | | 1 | 12 | 4 | 15 |
| | C. | 11 | 1 | | | 3 | | | | | | | 1 | | | | 3 | | | | 1 | 8 | 7 | 10 |
| 28..... | W. | 4 | | | | 4 | | | | | | | 2 | 4 | | | 1 | | | | 2 | 6 | 4 | 18 |
| | C. | 8 | | | 1 | 3 | | | | | | | 1 | | | | | | | | 1 | 6 | 9 | 21 |
| 29..... | W. | 6 | | | | 4 | 3 | | | | | | 2 | 2 | | | 1 | | | | 2 | 11 | 5 | 1 |
| | C. | 6 | | | 1 | 3 | | | | | | | 1 | | | | | | | | 1 | 5 | 1 | 9 |
| 30..... | W. | 4 | | | | 3 | | | | | | | 1 | | | | | | | | 1 | 9 | 9 | 18 |
| | C. | 9 | 1 | | | 5 | | | | | | | 2 | 2 | | | 1 | | | | 5 | 9 | 9 | 465 |
| | C. | 8 | | | | | | | | | | | 4 | | | | | | | | 1 | 9 | 9 | 465 |
| Total | W. | 236 | 11 | | 39 | 126 | 12 | 6 | 1 | 4 | 41 | 6 | 2 | 20 | 3 | 2 | 36 | 16 | 4 | 32 | 69 | 247 | 465 | |
| | C. | 207 | 10 | 1 | 27 | 115 | 21 | 12 | | 3 | 49 | 4 | 1 | 1 | 24 | 4 | 3 | 25 | 12 | 1 | 15 | 63 | 218 | |
| Mean | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE X CONTINUED.—JUNE, 1888.

| Meteorological conditions. | | | | | | | | | | | | | |
|----------------------------|-------------------------|---------------|----------|----------|--------|----------------------|-----------------------|--------------------|---------------|---------|-------------------------|------------------|---------------|
| Daily mean barometer. | Relative mean humidity. | Exposed bulb. | | | | Daily mean wet bulb. | Daily mean dew point. | Direction of wind. | | | Total movement of wind. | Daily rain-fall. | Day of month. |
| | | Daily mean. | Maximum. | Minimum. | Range. | | | 7 a.m. | 3 p.m. | 10 p.m. | | | |
| 29.69 | 71.0 | 66.3 | 73.0 | 60.0 | 13.0 | 60.0 | 56.3 | N. | NW. | NW. | 148 | ..... | 1 |
| 29.76 | 78.0 | 63.0 | 71.0 | 57.1 | 13.9 | 58.7 | 55.7 | N. | 0 | N. | 54 | .17 | 2 |
| 29.88 | 69.0 | 60.0 | 68.9 | 51.6 | 17.3 | 54.0 | 49.7 | NW. | N. | N. | 149 | .01 | 3 |
| 30.03 | 66.0 | 63.0 | 73.0 | 51.7 | 21.3 | 56.0 | 50.7 | N. | NW. | 0 | 89 | ..... | 4 |
| 30.12 | 68.7 | 68.7 | 80.3 | 51.8 | 28.5 | 62.0 | 57.3 | NW. | SE. | SW. | 101 | ..... | 5 |
| 29.98 | 69.3 | 76.3 | 88.3 | 61.0 | 27.3 | 68.3 | 64.7 | S. | S. | 0 | 124 | ..... | 6 |
| 29.94 | 60.3 | 72.0 | 79.0 | 62.7 | 16.3 | 62.7 | 57.0 | W. | NW. | N. | 187 | ..... | 7 |
| 30.03 | 74.7 | 65.0 | 74.2 | 53.8 | 20.4 | 60.0 | 56.7 | N. | NE. | 0 | 111 | ..... | 8 |
| 29.98 | 75.0 | 70.0 | 79.4 | 58.0 | 21.4 | 64.0 | 61.0 | S. | SE. | S. | 120 | ..... | 9 |
| 29.75 | 82.3 | 74.0 | 86.5 | 65.0 | 21.5 | 69.7 | 67.7 | S. | S. | S. | 146 | .04 | 10 |
| 29.75 | 63.7 | 71.3 | 81.0 | 63.8 | 17.2 | 62.7 | 57.3 | 0 | NW. | NW. | 217 | ..... | 11 |
| 30.05 | 55.7 | 65.7 | 75.0 | 54.4 | 20.6 | 56.0 | 48.3 | NW. | NE. | 0 | 116 | ..... | 12 |
| 30.06 | 68.3 | 67.3 | 77.0 | 56.6 | 20.4 | 60.0 | 55.7 | SW. | S. | SE. | 128 | ..... | 13 |
| 29.90 | 74.0 | 74.0 | 84.9 | 61.6 | 23.3 | 67.7 | 64.3 | SW. | S. | SW. | 117 | .40 | 14 |
| 29.81 | 67.7 | 79.0 | 91.1 | 65.8 | 25.3 | 70.3 | 66.3 | 0 | SW. | 0 | 76 | .22 | 15 |
| 29.73 | 67.0 | 79.7 | 93.7 | 70.0 | 23.7 | 70.7 | 66.7 | S. | W. | N. | 94 | ..... | 16 |
| 29.79 | 60.0 | 79.7 | 89.3 | 67.0 | 22.3 | 69.3 | 63.7 | NE. | N. | W. | 71 | ..... | 17 |
| 29.73 | 67.3 | 82.3 | 92.3 | 70.0 | 22.3 | 74.0 | 70.3 | 0 | SE. | 0 | 59 | ..... | 18 |
| 29.85 | 61.0 | 77.3 | 85.0 | 71.8 | 13.2 | 67.3 | 62.0 | N. | NE. | NE. | 138 | ..... | 19 |
| 29.81 | 55.0 | 77.3 | 87.1 | 61.2 | 25.9 | 65.7 | 58.7 | 0 | S. | S. | 75 | ..... | 20 |
| 29.72 | 65.0 | 80.7 | 92.2 | 70.0 | 22.2 | 71.7 | 67.7 | S. | SE. | NW. | 97 | ..... | 21 |
| 29.71 | 64.0 | 82.0 | 93.3 | 73.0 | 20.3 | 73.3 | 69.0 | NW. | SW. | 0 | 77 | ..... | 22 |
| 29.67 | 76.3 | 81.7 | 94.1 | 69.0 | 25.1 | 75.7 | 73.0 | SW. | NE. | 0 | 72 | .69 | 23 |
| 29.65 | 72.7 | 83.3 | 93.5 | 72.2 | 21.3 | 76.0 | 73.0 | NE. | S. | 0 | 72 | ..... | 24 |
| 29.71 | 58.3 | 82.3 | 91.3 | 74.0 | 17.3 | 70.7 | 65.0 | NW. | W. | 0 | 123 | ..... | 25 |
| 29.73 | 64.3 | 79.7 | 86.8 | 74.6 | 12.2 | 70.7 | 66.3 | SW. | W. | W. | 120 | .01 | 26 |
| 29.89 | 81.0 | 72.7 | 79.6 | 69.4 | 10.2 | 68.3 | 66.3 | NE. | NE. | E. | 87 | .10 | 27 |
| 29.78 | 96.3 | 66.3 | 74.3 | 62.3 | 12.2 | 65.7 | 65.3 | NE. | NE. | NE. | 242 | 1.34 | 28 |
| 29.97 | 91.3 | 59.0 | 64.0 | 54.0 | 10.0 | 57.3 | 56.3 | N. | N. | N. | 170 | .53 | 29 |
| 29.92 | 76.0 | 69.7 | 79.0 | 58.3 | 20.7 | 64.3 | 61.7 | N. | W. | W. | 98 | .02 | 30 |
| 895.39 | 2,099.2 | 2,189.3 | 2,478.1 | 1,891.7 | 586.4 | 1,972.8 | 1,854.0 | ..... | ..... | ..... | 3,478 | 3.53 | |
| 29.84 | 70.0 | 73.0 | 82.6 | 63.1 | 19.5 | 65.8 | 61.8 | N. | NE.
and S. | N. | 115.9 | .118 | |

T in rain-fall column indicates precipitation inappreciable.

The surface of the mercury in the cistern of barometer is 103 feet above mean level of the sea.

Barometer corrected for temperature and instrumental error only.

790 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE XI.—Showing deaths, arranged according to age, sex, and color, with percentages, for Twelve Years ending June 30, 1888.

WHITE MALES.

| Twelve years ending June 30, 1888. | Total deaths. | Five years and over. | | Twenty years and over. | | Forty years and over. | |
|--|---------------|----------------------|------------------------------|------------------------|------------------------------|-----------------------|------------------------------|
| | | Number of deaths. | Percent-age to total deaths. | Number of deaths. | Percent-age to total deaths. | Number of deaths. | Percent-age to total deaths. |
| 1877 | 1,148 | 725 | 63.15 | 633 | 55.14 | 432 | 37.63 |
| 1878 | 1,125 | 683 | 60.71 | 568 | 50.49 | 380 | 33.78 |
| 1879 | 1,100 | 689 | 60.97 | 562 | 49.73 | 384 | 33.98 |
| 1880 | 1,097 | 711 | 64.81 | 641 | 58.43 | 459 | 41.84 |
| 1881 | 1,179 | 791 | 67.10 | 709 | 60.14 | 509 | 43.17 |
| 1882 | 1,254 | 854 | 68.10 | 751 | 59.88 | 541 | 43.14 |
| 1883 | 1,196 | 820 | 68.53 | 709 | 59.28 | 533 | 44.57 |
| 1884 | 1,322 | 885 | 66.94 | 764 | 57.79 | 572 | 43.12 |
| 1885 | 1,375 | 957 | 69.67 | 841 | 61.16 | 601 | 43.71 |
| 1886 | 1,312 | 949 | 72.33 | 841 | 64.10 | 610 | 46.49 |
| 1887 | 1,343 | 940 | 69.84 | 845 | 62.91 | 596 | 44.38 |
| 1888 | 1,456 | 978 | 67.14 | 875 | 60.06 | 651 | 44.77 |
| Total deaths and mean percent-ages to total deaths | 14,937 | 10,082 | 67.50 | 8,738 | 58.50 | 6,266 | 41.95 |

WHITE FEMALES.

| Twelve years ending June 30, 1888. | Total deaths. | Five years and over. | | Twenty years and over. | | Forty years and over. | |
|--|---------------|----------------------|------------------------------|------------------------|------------------------------|-----------------------|------------------------------|
| | | Number of deaths. | Percent-age to total deaths. | Number of deaths. | Percent-age to total deaths. | Number of deaths. | Percent-age to total deaths. |
| 1877 | 1,039 | 621 | 59.77 | 522 | 50.24 | 339 | 32.63 |
| 1878 | 1,041 | 653 | 62.73 | 511 | 51.97 | 354 | 32.61 |
| 1879 | 1,066 | 647 | 60.69 | 535 | 50.19 | 334 | 31.33 |
| 1880 | 988 | 592 | 59.92 | 529 | 53.54 | 351 | 35.53 |
| 1881 | 1,026 | 716 | 69.78 | 611 | 59.55 | 404 | 39.38 |
| 1882 | 1,099 | 731 | 66.52 | 631 | 57.42 | 410 | 37.31 |
| 1883 | 1,074 | 728 | 67.78 | 632 | 58.85 | 439 | 40.88 |
| 1884 | 1,254 | 801 | 63.88 | 687 | 54.78 | 465 | 37.08 |
| 1885 | 1,235 | 832 | 67.37 | 705 | 57.08 | 489 | 39.59 |
| 1886 | 1,130 | 803 | 71.06 | 702 | 62.12 | 458 | 40.53 |
| 1887 | 1,141 | 800 | 70.20 | 697 | 61.08 | 488 | 42.77 |
| 1888 | 1,322 | 898 | 67.92 | 791 | 59.83 | 530 | 40.09 |
| Total deaths and mean percent-ages to total deaths | 13,415 | 8,822 | 65.76 | 7,583 | 56.52 | 5,061 | 37.72 |
| Total white | 28,351 | 18,904 | 66.67 | 16,321 | 57.56 | 11,327 | 39.95 |

COLORED MALES.

| Twelve years ending June 30, 1888. | Total deaths. | Five years and over. | | Twenty years and over. | | Forty years and over. | |
|--|---------------|----------------------|------------------------------|------------------------|------------------------------|-----------------------|------------------------------|
| | | Number of deaths. | Percent-age to total deaths. | Number of deaths. | Percent-age to total deaths. | Number of deaths. | Percent-age to total deaths. |
| 1877 | 988 | 417 | 42.20 | 337 | 34.11 | 206 | 20.85 |
| 1878 | 1,007 | 394 | 39.13 | 311 | 30.88 | 197 | 19.56 |
| 1879 | 1,051 | 430 | 40.91 | 348 | 33.11 | 209 | 19.89 |
| 1880 | 1,025 | 407 | 39.71 | 325 | 31.71 | 186 | 18.15 |
| 1881 | 921 | 424 | 46.04 | 347 | 37.68 | 210 | 22.80 |
| 1882 | 1,062 | 500 | 47.08 | 402 | 37.85 | 245 | 23.07 |
| 1883 | 1,004 | 504 | 50.20 | 397 | 39.54 | 253 | 25.20 |
| 1884 | 1,081 | 481 | 44.50 | 381 | 35.24 | 242 | 22.39 |
| 1885 | 1,210 | 587 | 48.51 | 476 | 39.34 | 300 | 24.79 |
| 1886 | 1,077 | 574 | 53.29 | 458 | 42.52 | 297 | 27.57 |
| 1887 | 1,079 | 536 | 49.67 | 427 | 39.60 | 270 | 25.02 |
| 1888 | 1,049 | 536 | 51.09 | 440 | 41.94 | 301 | 28.69 |
| Total deaths and mean percent-ages to total deaths | 12,554 | 5,790 | 46.12 | 4,649 | 37.03 | 2,916 | 23.22 |

TABLE XI.—Showing deaths, arranged according to age, sex, and color, etc.—Continued.

COLORED FEMALES.

| Twelve years
ending June
30, 1888. | Total
deaths. | Five years and over. | | Twenty years and over. | | Forty years and over. | |
|---|------------------|----------------------|-------------------------------------|------------------------|-------------------------------------|-----------------------|-------------------------------------|
| | | Number
of deaths. | Percent-
age to total
deaths. | Number
of deaths. | Percent-
age to total
deaths. | Number
of deaths. | Percent-
age to total
deaths. |
| 1877..... | 1,033 | 518 | 50.15 | 396 | 38.33 | 221 | 21.39 |
| 1878..... | 1,058 | 504 | 47.64 | 374 | 35.35 | 208 | 19.66 |
| 1879..... | 1,062 | 523 | 49.25 | 424 | 39.92 | 230 | 21.66 |
| 1880..... | 1,096 | 537 | 49.00 | 434 | 39.60 | 237 | 21.62 |
| 1881..... | 1,610 | 525 | 51.98 | 448 | 44.36 | 231 | 22.87 |
| 1882..... | 1,156 | 613 | 53.03 | 490 | 42.39 | 282 | 24.39 |
| 1883..... | 1,012 | 540 | 53.36 | 422 | 41.70 | 243 | 24.01 |
| 1884..... | 1,157 | 607 | 52.46 | 466 | 40.28 | 261 | 22.56 |
| 1885..... | 1,178 | 664 | 56.37 | 510 | 43.29 | 319 | 27.80 |
| 1886..... | 1,155 | 652 | 56.45 | 516 | 44.67 | 297 | 25.71 |
| 1887..... | 1,102 | 598 | 54.26 | 459 | 41.65 | 284 | 25.77 |
| 1888..... | 1,213 | 686 | 56.60 | 547 | 41.10 | 303 | 25.00 |
| Total deaths and
mean percent-
ages to total
deaths..... | 13,232 | 6,967 | 52.65 | 5,486 | 41.45 | 3,116 | 23.55 |
| Total colored.... | 25,786 | 12,757 | 49.47 | 10,135 | 39.30 | 6,032 | 23.39 |

TABLE XII.—Deaths and average ages, in Eight Years, from July 1, 1881, to June 30, 1888, inclusive.

WHITE.

| Year. | All ages. | | | | 5 years and over. | | | | 20 years and over. | | | | 40 years and over. | | | |
|--------------------------|-----------|--------|---------|-------|-------------------|--------|---------|-------|--------------------|--------|---------|-------|--------------------|--------|---------|-------|
| | Total. | Years. | Months. | Days. | Total. | Years. | Months. | Days. | Total. | Years. | Months. | Days. | Total. | Years. | Months. | Days. |
| 1881..... | 2,205 | 32 | 0 | 1 | 1,507 | 46 | 3 | 0 | 1,320 | 51 | 3 | 0 | 913 | 60 | 6 | 26 |
| 1882..... | 2,353 | 32 | 1 | 6 | 1,585 | 46 | 7 | 5 | 1,382 | 51 | 7 | 23 | 951 | 62 | 3 | 13 |
| 1883..... | 2,270 | 32 | 4 | 22 | 1,548 | 45 | 9 | 2 | 1,341 | 51 | 10 | 29 | 972 | 60 | 10 | 29 |
| 1884..... | 2,576 | 31 | 1 | 28 | 1,686 | 46 | 8 | 13 | 1,451 | 52 | 5 | 15 | 1,037 | 61 | 1 | 28 |
| 1885..... | 2,610 | 32 | 3 | 4 | 1,789 | 46 | 2 | 17 | 1,546 | 51 | 3 | 17 | 1,090 | 61 | 3 | 18 |
| 1886..... | 2,442 | 34 | 6 | 19 | 1,752 | 46 | 10 | 22 | 1,543 | 51 | 8 | 29 | 1,068 | 61 | 10 | 1 |
| 1887..... | 2,484 | 34 | 1 | 17 | 1,740 | 47 | 7 | 15 | 1,542 | 52 | 3 | 6 | 1,084 | 61 | 11 | 19 |
| 1888..... | 2,778 | 33 | 2 | 28 | 1,876 | 48 | 0 | 28 | 1,666 | 52 | 10 | 12 | 1,181 | 62 | 5 | 14 |
| Totals and
means..... | 19,718 | 32 | 8 | 25 | 13,483 | 46 | 7 | 24 | 11,791 | 51 | 11 | 5 | 8,296 | 61 | 6 | 22 |

COLORED.

| Year. | Total. | Years. | Months. | Days. | Total. | Years. | Months. | Days. | Total. | Years. | Months. | Days. | Total. | Years. | Months. | Days. |
|--------------------------|--------|--------|---------|-------|--------|--------|---------|-------|--------|--------|---------|-------|--------|--------|---------|-------|
| 1881..... | 1,931 | 20 | 11 | 6 | 949 | 41 | 9 | 13 | 795 | 47 | 8 | 10 | 441 | 63 | 1 | 4 |
| 1882..... | 2,218 | 21 | 5 | 23 | 1,113 | 41 | 0 | 3 | 892 | 48 | 5 | 16 | 527 | 61 | 11 | 16 |
| 1883..... | 2,016 | 21 | 9 | 17 | 1,044 | 40 | 8 | 23 | 821 | 48 | 10 | 7 | 496 | 61 | 2 | 27 |
| 1884..... | 2,238 | 19 | 11 | 13 | 1,088 | 40 | 5 | 23 | 847 | 49 | 1 | 3 | 507 | 61 | 2 | 3 |
| 1885..... | 2,388 | 22 | 7 | 29 | 1,249 | 40 | 6 | 18 | 986 | 50 | 0 | 22 | 618 | 62 | 11 | 2 |
| 1886..... | 2,232 | 22 | 11 | 17 | 1,226 | 41 | 4 | 4 | 974 | 47 | 6 | 20 | 594 | 62 | 0 | 14 |
| 1887..... | 2,181 | 22 | 0 | 7 | 1,134 | 41 | 3 | 22 | 886 | 49 | 4 | 16 | 554 | 59 | 6 | 23 |
| 1888..... | 2,262 | 22 | 11 | 3 | 1,222 | 41 | 9 | 22 | 987 | 48 | 8 | 2 | 604 | 60 | 8 | 13 |
| Totals and
means..... | 17,466 | 21 | 10 | 3 | 9,025 | 41 | 1 | 16 | 7,188 | 48 | 8 | 17 | 4,341 | 61 | 7 | 2 |

TABLE XIII.—Deaths under one month of age from convulsions and trismus nascentium, by age, months, and sanitary divisions, for the year ending June 30, 1888.

BY AGE.

| | Convulsions. | | | | | Trismus nascentium. | | | | |
|-----------------------------------|--------------|----|----------|----|--------|---------------------|----|----------|----|--------|
| | White. | | Colored. | | Total. | White. | | Colored. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | |
| Under one day..... | 2 | | | 1 | 3 | | | | | |
| One day to two days..... | | | 1 | 3 | 4 | | | | | |
| Two days to three days..... | 1 | 2 | 1 | | 4 | | | | 1 | 1 |
| Three days to four days..... | | | 1 | | 1 | | | 1 | | 1 |
| Four days to five days..... | 2 | 1 | 1 | 1 | 5 | | | 2 | | 2 |
| Five days to six days..... | 1 | | 2 | 1 | 4 | 2 | | 3 | | 5 |
| Six days to seven days..... | 1 | 1 | | 8 | 10 | 2 | 2 | 3 | 5 | 12 |
| Seven days to eight days..... | 1 | 2 | 1 | 3 | 7 | 1 | 1 | 6 | 7 | 15 |
| Eight days to nine days..... | 1 | | 2 | 3 | 6 | 1 | 3 | 3 | 3 | 10 |
| Nine days to ten days..... | | | 2 | 2 | 4 | 1 | | 4 | 3 | 8 |
| Ten days to eleven days..... | 1 | | | | 1 | 3 | | 1 | 1 | 5 |
| Eleven days to twelve days..... | | | | | | 1 | | 2 | | 3 |
| Twelve days to thirteen days..... | | | | | | | | 1 | | 1 |
| Thirteen days to two weeks..... | | | | 1 | 1 | | 1 | | | 1 |
| Two weeks to three weeks..... | 2 | | | | 2 | 1 | | | 1 | 2 |
| Three weeks to four weeks..... | 1 | 1 | 2 | | 4 | 1 | | | | 1 |
| Total..... | 13 | 7 | 13 | 23 | 56 | 13 | 7 | 26 | 21 | 67 |

BY MONTHS.

| | | | | | | | | | | |
|----------------|----|---|----|----|----|----|---|----|----|----|
| July..... | 2 | | 2 | 1 | 5 | 2 | 2 | | 1 | 5 |
| August..... | 1 | | | 1 | 2 | 3 | 1 | 3 | 3 | 10 |
| September..... | 2 | 1 | 1 | 4 | 8 | | | 1 | 2 | 3 |
| October..... | 1 | | 1 | 2 | 4 | 3 | | 1 | | 4 |
| November..... | 1 | | 2 | 3 | 6 | | 2 | | 3 | 6 |
| December..... | | | | 2 | 2 | 1 | 1 | 1 | 4 | 7 |
| January..... | 1 | | 1 | 1 | 3 | | 1 | 2 | 1 | 4 |
| February..... | | | | 1 | 1 | | | 5 | 3 | 8 |
| March..... | 1 | 1 | 3 | 1 | 6 | 3 | | 3 | 1 | 7 |
| April..... | 2 | 1 | 1 | 2 | 6 | | | | | |
| May..... | | 1 | 2 | 1 | 4 | 1 | | 5 | 2 | 8 |
| June..... | 2 | 3 | | 4 | 9 | | | 4 | 1 | 5 |
| Total..... | 13 | 7 | 13 | 23 | 56 | 13 | 7 | 26 | 21 | 67 |

BY SANITARY DIVISIONS.

| | | | | | | | | | | |
|---------------------------------|----|---|----|----|----|----|---|----|----|----|
| First sanitary division..... | 1 | | | | 1 | 1 | | 1 | | 2 |
| Second sanitary division..... | | 1 | | | 1 | | | | 1 | 1 |
| Third sanitary division..... | 3 | 2 | | 1 | 6 | | | 2 | 1 | 3 |
| Fourth sanitary division..... | | 1 | 4 | 4 | 9 | 1 | | 5 | 2 | 8 |
| Fifth sanitary division..... | 1 | | | 5 | 6 | 1 | 2 | 2 | 3 | 8 |
| Sixth sanitary division..... | 1 | | 2 | | 3 | 4 | 1 | 3 | | 8 |
| Seventh sanitary division..... | 4 | 1 | 1 | 4 | 10 | 1 | 1 | 4 | 4 | 10 |
| Eighth sanitary division..... | | 2 | | 1 | 3 | 1 | 1 | 3 | 3 | 8 |
| Ninth sanitary division..... | | | 2 | 3 | 5 | | | 1 | 2 | 3 |
| Tenth sanitary division..... | | | 2 | 1 | 3 | | | 1 | 4 | 5 |
| Eleventh sanitary division..... | 1 | | 1 | 2 | 4 | 3 | 2 | 3 | | 8 |
| Twelfth sanitary division..... | 2 | | 1 | 2 | 5 | 1 | | 1 | 1 | 3 |
| Total..... | 13 | 7 | 13 | 23 | 56 | 13 | 7 | 26 | 21 | 67 |

TABLE XIV.—*Still-births and cause, and legitimacy, period of utero-gestation, and by whom reported, for the year ending June 30, 1888.*

| | White. Colored. | | | | | | White. Colored. | | | | |
|---------------------------------|-----------------|---------|-------|---------|--------|--|-----------------|---------|-------|---------|--------|
| | Male. | Female. | Male. | Female. | Total. | | Male. | Female. | Male. | Female. | Total. |
| Legitimacy: | | | | | | Causes—Continued. | | | | | |
| Legitimate..... | 87 | 69 | 80 | 75 | 311 | Fright of mother..... | 0 | 0 | 1 | 1 | 2 |
| Illegitimate..... | 14 | 12 | 74 | 47 | 147 | Heavy lifting and over-work..... | 3 | 3 | 12 | 11 | 29 |
| Total..... | 101 | 81 | 154 | 122 | 458 | Hydrops amnii..... | 0 | 0 | 0 | 2 | 2 |
| Period of utero-gestation: | | | | | | Ill-health of mother.... | 5 | 3 | 6 | 9 | 23 |
| Fourth month and under | 4 | 3 | 13 | 2 | 22 | Injury to mother..... | 2 | 0 | 2 | 3 | 7 |
| Fifth month..... | 5 | 4 | 9 | 9 | 27 | Malformation of pelvis.. | 0 | 2 | 0 | 1 | 3 |
| Sixth month..... | 12 | 6 | 30 | 16 | 64 | Monstrosity..... | 2 | 1 | 0 | 1 | 4 |
| Seventh month..... | 20 | 13 | 22 | 23 | 78 | Neglect at confinement.. | 0 | 1 | 0 | 1 | 2 |
| Eighth month..... | 12 | 12 | 21 | 12 | 57 | One of twins..... | 1 | 2 | 2 | 0 | 5 |
| Ninth month..... | 39 | 38 | 54 | 58 | 189 | Placenta prævia..... | 5 | 2 | 2 | 3 | 12 |
| Tenth month..... | 2 | 0 | 1 | 0 | 3 | Premature birth..... | 9 | 6 | 35 | 21 | 71 |
| Unknown and not given | 7 | 5 | 4 | 2 | 18 | Predisposition to abortion..... | 1 | 2 | 4 | 3 | 10 |
| Total..... | 101 | 81 | 154 | 122 | 458 | Pressure on cord..... | 1 | 1 | 0 | 3 | 5 |
| By whom reported: | | | | | | Presentation: | | | | | |
| Physicians..... | 77 | 64 | 73 | 56 | 270 | Arm..... | 1 | 0 | 0 | 0 | 1 |
| Midwives..... | 5 | 2 | 1 | 2 | 10 | Breech..... | 2 | 1 | 0 | 2 | 5 |
| Coroner..... | 9 | 7 | 43 | 28 | 87 | Cord..... | 0 | 0 | 1 | 0 | 1 |
| Medical sanitary inspector..... | 10 | 8 | 37 | 36 | 91 | Face..... | 0 | 3 | 0 | 0 | 3 |
| Total..... | 101 | 81 | 154 | 122 | 458 | Foot..... | 0 | 2 | 1 | 0 | 3 |
| Causes: | | | | | | Transverse..... | 0 | 0 | 1 | 0 | 1 |
| Asphyxia..... | 2 | 1 | 1 | 1 | 5 | Protracted labor..... | 2 | 12 | 10 | 2 | 26 |
| Congenital debility.... | 1 | 1 | 0 | 1 | 3 | Puerperal convulsions.. | 0 | 1 | 2 | 3 | 6 |
| Craniotomy..... | 1 | 0 | 0 | 0 | 1 | Strangulated cord..... | 1 | 1 | 0 | 1 | 3 |
| Degeneration of placenta..... | 0 | 0 | 1 | 0 | (1) | Syphilis..... | 0 | 1 | 3 | 1 | 5 |
| Died in utero..... | 3 | 2 | 2 | 4 | (11) | Uremic poisoning..... | 0 | 1 | 1 | 0 | 2 |
| Fall of mother..... | 4 | 4 | 7 | 6 | (21) | Use of oxytocics..... | 0 | 0 | 0 | 1 | 1 |
| Fall of cord..... | 1 | 4 | 1 | 1 | 7 | Uterine hemorrhage.... | 1 | 0 | 0 | 1 | 2 |
| | | | | | | Youth of mother (3 still-births before 19 years of age)..... | 0 | 0 | 1 | 0 | 1 |
| | | | | | | Unknown and not stated | 53 | 24 | 58 | 39 | 174 |
| | | | | | | Total..... | 101 | 81 | 154 | 122 | 458 |

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TABLE XV.—BIRTHS.—Statement by months and quarters for the year ending June 30, 1888.

| Months and quarters. | White. | | Colored. | | Twins. | | Triplets (colored). | Bas-tards. | | Attended by physi-cians. | | Attended by mid-wives and others. | |
|--------------------------------|--------|-------|----------|-------|---------|--------|---------------------|------------|----------|--------------------------|----------|-----------------------------------|----------|
| | Total. | Male. | Female. | Male. | Female. | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. |
| 1887. | | | | | | | | | | | | | |
| July | 227 | 135 | 92 | 66 | 66 | 4 | 2 | 8 | 30 | 81 | 34 | 76 | 97 |
| August | 203 | 97 | 106 | 62 | 54 | 4 | 4 | 2 | 15 | 106 | 27 | 84 | 89 |
| September | 324 | 173 | 151 | 57 | 73 | 2 | 6 | 4 | 21 | 105 | 36 | 89 | 94 |
| Total first quarter | 915 | 505 | 410 | 185 | 192 | 16 | 12 | 14 | 66 | 292 | 97 | 249 | 280 |
| October | 309 | 160 | 149 | 81 | 71 | 6 | 6 | 7 | 38 | 118 | 44 | 97 | 110 |
| November | 296 | 68 | 228 | 64 | 51 | 7 | 7 | 6 | 30 | 81 | 31 | 79 | 84 |
| December | 317 | 165 | 152 | 66 | 72 | 4 | 2 | 11 | 31 | 99 | 41 | 80 | 97 |
| Total second quarter | 932 | 493 | 439 | 214 | 194 | 19 | 15 | 24 | 99 | 298 | 116 | 247 | 291 |
| 1888. | | | | | | | | | | | | | |
| January | 302 | 174 | 128 | 67 | 73 | 6 | 1 | 6 | 38 | 80 | 30 | 83 | 109 |
| February | 311 | 162 | 149 | 77 | 67 | 4 | 4 | 7 | 40 | 96 | 45 | 82 | 94 |
| March | 342 | 188 | 154 | 84 | 92 | 3 | 10 | 8 | 37 | 109 | 47 | 74 | 119 |
| Total third quarter | 955 | 524 | 431 | 228 | 232 | 9 | 14 | 21 | 115 | 285 | 122 | 239 | 322 |
| April | 266 | 137 | 129 | 64 | 65 | 12 | 4 | 3 | 35 | 71 | 25 | 65 | 104 |
| May | 245 | 111 | 134 | 74 | 60 | 6 | 1 | 1 | 24 | 77 | 29 | 50 | 89 |
| June | 322 | 163 | 159 | 87 | 72 | 4 | 4 | 7 | 34 | 91 | 42 | 70 | 118 |
| Total fourth quarter | 833 | 418 | 415 | 229 | 187 | 12 | 8 | 11 | 93 | 240 | 96 | 185 | 311 |
| Total by sex and color | 1,848 | 958 | 890 | 446 | 444 | 56 | 39 | 56 | 388 | 1,115 | 431 | 920 | 1,204 |
| Total by color | 2,685 | 1,635 | 1,050 | 47 | 49 | 12 | 71 | 373 | 1,115 | 431 | 920 | 1,204 | |
| Grand total for the year | 2,677 | 1,635 | 1,042 | 47 | 49 | 86 | 12 | 444 | 1,546 | 431 | 920 | 2,124 | |

TABLE XVI.—BIRTHS.—*Number of births (reported) in different hospitals during the year ending June 30, 1888.*

| Months. | Color. | Sex. | Columbia Hospi-
tal. | Freedmen's Hos-
pital. | Washington Asy-
lum. | St. Ann's Asylum. | Naval Dispensary. |
|-----------|---------|--------|-------------------------|---------------------------|-------------------------|-------------------|-------------------|
| 1887. | | | | | | | |
| July | White | Male | | 1 | | | |
| | | Female | 3 | | | | |
| | Colored | Male | 5 | 4 | | | |
| Female | | 5 | 4 | 1 | | | |
| August | White | Male | | | | | |
| | | Female | 1 | | 1 | | |
| | Colored | Male | 3 | 2 | 1 | | |
| Female | | 1 | 10 | | | | |
| September | White | Male | 1 | | 1 | | |
| | | Female | 3 | | | | |
| | Colored | Male | 3 | 3 | | | |
| Female | | 3 | 2 | 2 | | | |
| October | White | Male | 2 | | | | |
| | | Female | 2 | 1 | 1 | | |
| | Colored | Male | 6 | 5 | 2 | | |
| Female | | 2 | 6 | | | | |
| November | White | Male | 1 | | | | |
| | | Female | 3 | | 2 | 1 | |
| | Colored | Male | 5 | 11 | | | |
| Female | | 1 | 7 | 1 | | | |
| December | White | Male | 1 | | | 1 | |
| | | Female | 5 | 3 | | 2 | |
| | Colored | Male | 2 | 6 | | | |
| Female | | 6 | 6 | 1 | | | |
| 1888. | | | | | | | |
| January | White | Male | 2 | 2 | | 1 | |
| | | Female | 3 | | 1 | | |
| | Colored | Male | 2 | 7 | 1 | | |
| Female | | 4 | 5 | | | | |
| February | White | Male | 5 | 1 | | | |
| | | Female | 4 | 1 | | | |
| | Colored | Male | 5 | 10 | 1 | | |
| Female | | 8 | 9 | 1 | | | |
| March | White | Male | 3 | | | 2 | |
| | | Female | 5 | | 1 | | |
| | Colored | Male | 7 | 6 | 4 | | |
| Female | | 4 | 10 | 1 | | | |
| April | White | Male | 4 | 1 | | | |
| | | Female | 4 | | | | |
| | Colored | Male | 1 | 5 | 2 | | |
| Female | | 3 | 2 | | | | |
| May | White | Male | | | | | |
| | | Female | | 1 | | | |
| | Colored | Male | 4 | 6 | 2 | | |
| Female | | 2 | 7 | 1 | | | |
| June | White | Male | 5 | | 1 | | |
| | | Female | 7 | | | | |
| | Colored | Male | 9 | 3 | | | |
| Female | | 1 | 4 | 1 | | | |

RECAPITULATION.

| | Total. | White. | Colored. | Male. | Female. |
|----------------------------|--------|--------|----------|-------|---------|
| Columbia Hospital | 156 | 64 | 92 | 76 | 80 |
| Freedmen's Hospital | 151 | 11 | 140 | 72 | 79 |
| Washington Asylum Hospital | 30 | 8 | 22 | 15 | 15 |
| St. Ann's Asylum Hospital | 7 | 7 | | 4 | 3 |
| Naval Dispensary | 1 | 1 | | 1 | |
| Total | 345 | 91 | 254 | 168 | 177 |

TABLE XVII.—MARRIAGES (REPORTED).—*Number of brides and grooms, year ending June 30 1888.*

| Number of marriages of grooms. | Number of marriages of brides. | | | | | Total. |
|--------------------------------|--------------------------------|------------------|-----------------|------------------|------------|--------|
| | First marriage. | Second marriage. | Third marriage. | Fourth marriage. | Not given. | |
| WHITES. | | | | | | |
| First marriage..... | 699 | 42 | 1 | | 2 | 744 |
| Second marriage..... | 87 | 32 | | | 1 | 120 |
| Third marriage..... | 5 | 4 | 1 | 1 | | 11 |
| Fourth marriage..... | | | | | | |
| Not given..... | 1 | 1 | | | 6 | 8 |
| Total..... | 792 | 79 | 2 | 1 | 9 | 883 |
| COLORED. | | | | | | |
| First marriage..... | 242 | 22 | 1 | | | 265 |
| Second marriage..... | 29 | 19 | | | 2 | 50 |
| Third marriage..... | 2 | 5 | 2 | | | 9 |
| Fourth marriage..... | | | | | | |
| Not given..... | 2 | | | | | 2 |
| Total..... | 275 | 46 | 3 | | 2 | 326 |
| MIXED. | | | | | | |
| First marriage..... | 3 | | | | | 3 |
| Total..... | 3 | | | | | 3 |
| Grand total..... | 1,070 | 125 | 5 | 1 | 11 | 1,212 |

TABLE XVIII.—MARRIAGES (REPORTED).—*Nationality of brides and grooms of white race, year ending June 30, 1888.*

| Birthplace of grooms. | Birthplace of brides. | | | | | | | | | | | | | Total. |
|------------------------|-----------------------|----------|----------|----------|---------|-----------|--------|----------|--------|--------------|-------------------|---------|--------------------|--------|
| | United States. | Germany. | England. | Ireland. | Russia. | Scotland. | Italy. | Hungary. | Spain. | West Indies. | Sandwich Islands. | Canada. | Mixed as to color. | |
| United States..... | 740 | 2 | 6 | 4 | | | | | 1 | 1 | 1 | 1 | | 756 |
| Germany..... | 25 | 48 | | 1 | | | | 1 | | 1 | 1 | | 1 | 77 |
| England..... | 12 | 2 | 2 | 1 | | | | | | | | 1 | | 18 |
| Ireland..... | 6 | | | | | | | | | | | | | 6 |
| Russia..... | 3 | 1 | | | 5 | | | | | | | | | 9 |
| Scotland..... | | | 2 | | | 1 | | | | | | | | 3 |
| Denmark..... | 1 | | | | | | | | | | | | | 1 |
| Holland..... | 1 | 1 | | | | | | | | | | | | 2 |
| Sweden..... | 1 | | | | | | | | | | | | | 1 |
| France..... | | 1 | | | | | | | | | | | | 1 |
| Italy..... | 2 | | | | | | 1 | | | | | | | 3 |
| Switzerland..... | 1 | 1 | | | | | | | | | | | | 2 |
| Hungary..... | | | | | | | | | | | | | | |
| Spain..... | 1 | | | | | | | | | | | | | 1 |
| West Indies..... | | | | | | | | | | | | | | |
| Sandwich Islands..... | | | | | | | | | | | | | | |
| Canada..... | 4 | | | | | | | | | | | | | 4 |
| Mixed as to color..... | 2 | | | | | | | | | | | | | 2 |
| Total..... | 799 | 56 | 10 | 6 | 5 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 886 |

TABLE XIX.—MARRIAGES (REPORTED.)—*Ages of brides and grooms (white) during the year ending June 30, 1888.*

| Ages of grooms. | Ages of brides. | | | | | | | Total. |
|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|--------|
| | Under 20 years. | 20 to 25 years. | 25 to 30 years. | 30 to 40 years. | 40 to 50 years. | 50 to 60 years. | Not given. | |
| Under 20 years..... | 9 | | | | | | | 9 |
| 20 to 25 years..... | 142 | 161 | 16 | 2 | | | 1 | 322 |
| 25 to 30 years..... | 68 | 130 | 52 | 10 | 2 | | 1 | 263 |
| 30 to 40 years..... | 18 | *61 | 56 | 37 | 4 | | 1 | 177 |
| 40 to 50 years..... | 2 | *13 | *25 | 21 | 9 | | | 70 |
| 50 to 60 years..... | | 1 | 6 | 9 | 7 | 3 | | 26 |
| 60 to 70 years..... | | 1 | | 2 | 1 | 2 | | 6 |
| 70 years and over..... | | 1 | | | 2 | 1 | | 4 |
| Not given..... | | | | | | | 9 | 9 |
| Total | 239 | 368 | 155 | 81 | 25 | 6 | 12 | 886 |

* Including three mixed marriages; two white grooms and colored brides, and one colored groom and white bride.

TABLE XX.—MARRIAGES (REPORTED.)—*Ages of brides and grooms (colored) during the year ending June 30, 1888.*

| Ages of grooms. | Ages of brides. | | | | | | | Total. |
|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|--------|
| | Under 20 years. | 20 to 25 years. | 25 to 30 years. | 30 to 40 years. | 40 to 50 years. | 50 to 60 years. | Not given. | |
| Under 20 years..... | 1 | | | | | | | 1 |
| 20 to 25 years..... | 55 | 74 | 4 | 2 | | | 2 | 137 |
| 25 to 30 years..... | 20 | 44 | 18 | 2 | 3 | | | 87 |
| 30 to 40 years..... | 6 | *17 | 19 | 13 | 1 | | | 56 |
| 40 to 50 years..... | 1 | *5 | *9 | 17 | 2 | 1 | | 35 |
| 50 to 60 years..... | | 1 | 1 | 1 | 6 | 1 | | 10 |
| 60 to 70 years..... | | 1 | | | 2 | | 1 | 4 |
| 70 years and over..... | | | | | | | | |
| Not given..... | | | | | | | | |
| Total | 83 | 142 | 51 | 35 | 14 | 2 | 3 | 330 |

* Including three mixed marriages; two white grooms and colored brides, and one colored groom and white bride.

TABLE XXI.—Deaths and death-rates for the past Thirteen Years.

| Years. | January. | | | | | February. | | | | | March. | | | | |
|---------|----------|--------------------|----------|--------------------|---|-----------|--------------------|----------|--------------------|---|---------|--------------------|----------|--------------------|---|
| | White. | | Colored. | | Annual death-rate for total population. | White. | | Colored. | | Annual death-rate for total population. | White. | | Colored. | | Annual death-rate for total population. |
| | Deaths. | Annual death-rate. | Deaths. | Annual death-rate. | | Deaths. | Annual death-rate. | Deaths. | Annual death-rate. | | Deaths. | Annual death-rate. | Deaths. | Annual death-rate. | |
| 1875 .. | 211 | 24.33 | 186 | 45.65 | 31.15 | 176 | 22.05 | 209 | 55.71 | 32.81 | 239 | 27.54 | 193 | 47.36 | 33.89 |
| 1876 .. | 160 | 17.99 | 137 | 32.32 | 22.61 | 148 | 17.48 | 162 | 40.17 | 24.58 | 192 | 21.58 | 173 | 49.82 | 27.79 |
| 1877 .. | 182 | 19.94 | 147 | 33.36 | 24.31 | 172 | 20.47 | 175 | 43.14 | 27.86 | 199 | 21.81 | 168 | 36.24 | 27.12 |
| 1878 .. | 178 | 19.01 | 165 | 36.03 | 24.60 | 158 | 18.34 | 128 | 30.35 | 22.28 | 198 | 21.15 | 148 | 32.31 | 24.82 |
| 1879 .. | 212 | 22.07 | 162 | 34.03 | 26.04 | 161 | 18.21 | 174 | 39.76 | 25.33 | 180 | 18.74 | 197 | 41.38 | 26.24 |
| 1880 .. | 168 | 17.05 | 156 | 31.51 | 21.89 | 193 | 20.43 | 181 | 38.45 | 26.57 | 155 | 15.73 | 198 | 40.00 | 23.85 |
| 1881 .. | 202 | 19.98 | 138 | 26.81 | 22.29 | 176 | 18.91 | 186 | 39.25 | 25.73 | 187 | 18.50 | 185 | 35.95 | 24.39 |
| 1882 .. | 168 | 16.20 | 165 | 30.84 | 21.18 | 171 | 17.91 | 196 | 39.79 | 25.36 | 218 | 21.02 | 170 | 31.77 | 24.68 |
| 1883 .. | 182 | 17.29 | 158 | 28.87 | 21.25 | 170 | 17.54 | 158 | 31.59 | 22.27 | 236 | 22.42 | 196 | 35.81 | 27.00 |
| 1884 .. | 252 | 23.14 | 201 | 34.81 | 27.18 | 202 | 19.51 | 200 | 36.42 | 25.37 | 233 | 21.39 | 181 | 31.34 | 24.34 |
| 1885 .. | 196 | 18.00 | 182 | 31.52 | 22.68 | 232 | 23.13 | 213 | 40.06 | 29.00 | 253 | 23.23 | 214 | 37.05 | 28.02 |
| 1886 .. | 225 | 19.85 | 153 | 26.61 | 22.13 | 196 | 18.79 | 203 | 38.35 | 25.37 | 246 | 21.71 | 192 | 33.39 | 25.64 |
| 1887 .. | 210 | 16.80 | 159 | 25.44 | 19.68 | 165 | 13.20 | 145 | 23.26 | 20.42 | 213 | 17.04 | 170 | 27.20 | 20.42 |
| Total. | 2,546 | ..... | 2,109 | ..... | ..... | 2,320 | ..... | 2,330 | ..... | ..... | 2,749 | ..... | 2,385 | ..... | ..... |
| Mean. | 195.8 | 19.36 | 162.2 | 31.98 | 23.61 | 178.5 | 18.92 | 179.3 | 38.17 | 25.61 | 211.5 | 20.91 | 183.5 | 36.20 | 26.01 |

| Years. | April. | | | | | May. | | | | | June. | | | | |
|---------|---------|--------------------|----------|--------------------|---|---------|--------------------|----------|--------------------|---|---------|--------------------|----------|--------------------|---|
| | White. | | Colored. | | Annual death-rate for total population. | White. | | Colored. | | Annual death-rate for total population. | White. | | Colored. | | Annual death-rate for total population. |
| | Deaths. | Annual death-rate. | Deaths. | Annual death-rate. | | Deaths. | Annual death-rate. | Deaths. | Annual death-rate. | | Deaths. | Annual death-rate. | Deaths. | Annual death-rate. | |
| 1875 .. | 174 | 20.67 | 168 | 41.23 | 26.83 | 144 | 16.61 | 159 | 39.02 | 23.71 | 210 | 24.22 | 220 | 53.99 | 33.71 |
| 1876 .. | 143 | 16.68 | 153 | 36.12 | 22.54 | 141 | 15.85 | 138 | 32.57 | 21.24 | 253 | 28.44 | 238 | 56.15 | 37.39 |
| 1877 .. | 148 | 16.22 | 145 | 32.91 | 21.65 | 156 | 17.10 | 132 | 29.96 | 21.28 | 187 | 20.49 | 207 | 45.62 | 28.67 |
| 1878 .. | 145 | 15.49 | 174 | 37.99 | 22.70 | 190 | 20.30 | 184 | 40.17 | 26.83 | 210 | 22.43 | 226 | 49.34 | 31.27 |
| 1879 .. | 176 | 18.33 | 158 | 33.19 | 23.25 | 148 | 15.41 | 148 | 31.09 | 20.61 | 241 | 24.05 | 213 | 44.74 | 30.91 |
| 1880 .. | 160 | 16.24 | 165 | 33.33 | 21.95 | 165 | 16.75 | 183 | 36.97 | 23.51 | 220 | 22.33 | 238 | 48.08 | 30.94 |
| 1881 .. | 191 | 18.90 | 194 | 37.69 | 25.24 | 175 | 17.31 | 121 | 23.51 | 19.40 | 170 | 16.82 | 150 | 29.15 | 20.98 |
| 1882 .. | 178 | 17.16 | 160 | 29.90 | 21.50 | 155 | 14.95 | 171 | 32.42 | 20.74 | 200 | 19.29 | 190 | 35.51 | 24.81 |
| 1883 .. | 219 | 20.81 | 162 | 29.60 | 23.81 | 203 | 19.29 | 153 | 27.95 | 22.25 | 199 | 18.91 | 169 | 30.88 | 23.00 |
| 1884 .. | 225 | 21.42 | 175 | 30.30 | 24.00 | 177 | 16.25 | 172 | 29.78 | 20.94 | 234 | 21.48 | 209 | 36.19 | 26.58 |
| 1885 .. | 210 | 19.28 | 220 | 38.10 | 25.80 | 181 | 16.62 | 207 | 35.81 | 23.28 | 248 | 22.77 | 261 | 45.19 | 30.54 |
| 1886 .. | 184 | 16.32 | 194 | 33.74 | 22.13 | 158 | 13.94 | 170 | 39.69 | 19.26 | 193 | 17.03 | 195 | 33.91 | 22.71 |
| 1887 .. | 182 | 14.56 | 173 | 27.68 | 18.93 | 159 | 12.72 | 172 | 27.52 | 17.65 | 262 | 20.96 | 237 | 37.92 | 26.61 |
| Total. | 2,335 | ..... | 2,241 | ..... | ..... | 2,152 | ..... | 2,110 | ..... | ..... | 2,817 | ..... | 2,747 | ..... | ..... |
| Mean. | 179.6 | 17.77 | 172.4 | 33.98 | 23.10 | 165.5 | 16.39 | 162.3 | 32.16 | 21.59 | 216.7 | 21.48 | 211.3 | 42.05 | 28.32 |

TABLE XXI.—Deaths and death-rates for the past Thirteen Years—Continued.

| Years. | July. | | | August. | | | September. | | |
|---------|---------|--------------------|---|---------|--------------------|---|------------|--------------------|---|
| | White. | | Colored. | White. | | Colored. | White. | | Colored. |
| | Deaths. | Annual death-rate. | Annual death-rate for total population. | Deaths. | Annual death-rate. | Annual death-rate for total population. | Deaths. | Annual death-rate. | Annual death-rate for total population. |
| 1875 .. | 223 | 25.46 | 32.77 | 227 | 25.81 | 34.01 | 162 | 18.68 | 27.93 |
| 1876 .. | 208 | 32.78 | 42.24 | 209 | 22.88 | 29.44 | 172 | 19.34 | 26.57 |
| 1877 .. | 224 | 24.07 | 34.59 | 206 | 22.25 | 30.11 | 164 | 17.97 | 23.38 |
| 1878 .. | 222 | 23.12 | 33.14 | 201 | 20.94 | 29.77 | 156 | 16.66 | 21.73 |
| 1879 .. | 250 | 25.49 | 33.40 | 182 | 18.47 | 24.56 | 154 | 16.04 | 22.62 |
| 1880 .. | 192 | 19.15 | 24.53 | 154 | 15.23 | 21.37 | 197 | 19.99 | 24.66 |
| 1881 .. | 236 | 22.77 | 30.77 | 208 | 20.07 | 27.76 | 201 | 19.84 | 26.35 |
| 1882 .. | 230 | 21.70 | 27.63 | 165 | 15.54 | 21.17 | 141 | 13.57 | 18.23 |
| 1883 .. | 309 | 28.14 | 31.39 | 198 | 18.41 | 24.57 | 168 | 15.76 | 20.68 |
| 1884 .. | 223 | 20.47 | 25.50 | 245 | 22.49 | 26.64 | 236 | 21.67 | 25.56 |
| 1885 .. | 223 | 28.50 | 34.82 | 216 | 18.53 | 22.13 | 194 | 17.12 | 21.25 |
| 1886 .. | 218 | 18.64 | 25.14 | 220 | 18.86 | 24.17 | 247 | 21.17 | 25.09 |
| 1887 .. | 310 | 28.13 | 29.07 | 224 | 17.92 | 21.98 | 233 | 18.64 | 23.10 |
| Total | 3,249 | ..... | ..... | 2,649 | ..... | ..... | 2,425 | ..... | ..... |
| Mean | 249.9 | 24.34 | 31.15 | 203.7 | 19.78 | 25.98 | 186.6 | 18.19 | 23.63 |

| Years. | October. | | | November. | | | December. | | |
|---------|----------|--------------------|---|-----------|--------------------|---|-----------|--------------------|---|
| | White. | | Colored. | White. | | Colored. | White. | | Colored. |
| | Deaths. | Annual death-rate. | Annual death-rate for total population. | Deaths. | Annual death-rate. | Annual death-rate for total population. | Deaths. | Annual death-rate. | Annual death-rate for total population. |
| 1875 .. | 147 | 16.95 | 24.87 | 143 | 16.49 | 22.36 | 147 | 16.95 | 22.99 |
| 1876 .. | 164 | 18.44 | 25.20 | 135 | 15.19 | 19.34 | 165 | 18.55 | 22.69 |
| 1877 .. | 181 | 19.83 | 24.61 | 155 | 16.99 | 20.99 | 157 | 17.20 | 22.32 |
| 1878 .. | 185 | 19.76 | 23.74 | 155 | 16.56 | 21.23 | 169 | 18.05 | 23.02 |
| 1879 .. | 129 | 13.43 | 17.82 | 147 | 15.31 | 19.28 | 162 | 16.87 | 21.79 |
| 1880 .. | 188 | 19.08 | 24.59 | 162 | 16.44 | 20.00 | 211 | 21.41 | 22.97 |
| 1881 .. | 234 | 23.10 | 27.00 | 211 | 20.83 | 23.76 | 173 | 17.08 | 20.79 |
| 1882 .. | 180 | 17.32 | 22.50 | 162 | 15.59 | 20.05 | 183 | 17.61 | 20.30 |
| 1883 .. | 151 | 14.16 | 17.48 | 182 | 17.07 | 21.98 | 254 | 23.82 | 28.69 |
| 1884 .. | 193 | 17.72 | 22.08 | 204 | 18.73 | 21.12 | 188 | 17.26 | 21.90 |
| 1885 .. | 159 | 14.03 | 19.02 | 158 | 14.68 | 19.14 | 195 | 17.21 | 20.35 |
| 1886 .. | 221 | 18.94 | 23.37 | 194 | 16.63 | 20.57 | 192 | 16.43 | 19.77 |
| 1887 .. | 217 | 17.36 | 18.76 | 175 | 14.00 | 18.29 | 212 | 16.96 | 19.25 |
| Total | 2,349 | ..... | ..... | 2,183 | ..... | ..... | 2,408 | ..... | ..... |
| Mean | 180.7 | 17.70 | 22.38 | 167.9 | 16.50 | 20.62 | 185.2 | 18.88 | 22.06 |

800 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE XXII.—Deaths of children under one year of age, by sex and color, during Thirteen Years, from July 1, 1875, to June 30, 1888, inclusive.

| Year. | July. | | | | | August. | | | | | September | | | | |
|--------------------|--------|-----|----------|-----|--------|---------|-----|----------|-----|--------|-----------|-----|----------|-----|--------|
| | White. | | Colored. | | Total. | White. | | Colored. | | Total. | White. | | Colored. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | |
| 1876 | 58 | 57 | 50 | 55 | 230 | 37 | 43 | 32 | 37 | 149 | 25 | 17 | 34 | 36 | 112 |
| 1877 | 35 | 47 | 48 | 51 | 181 | 27 | 39 | 30 | 28 | 124 | 15 | 16 | 16 | 10 | 57 |
| 1878 | 21 | 27 | 29 | 31 | 108 | 37 | 28 | 43 | 41 | 149 | 14 | 13 | 26 | 27 | 80 |
| 1879 | 34 | 31 | 44 | 57 | 166 | 23 | 31 | 46 | 42 | 142 | 14 | 23 | 22 | 19 | 78 |
| 1880 | 57 | 54 | 66 | 43 | 220 | 27 | 27 | 48 | 27 | 129 | 22 | 14 | 26 | 24 | 86 |
| 1881 | 38 | 36 | 36 | 47 | 157 | 22 | 16 | 27 | 36 | 101 | 12 | 15 | 38 | 29 | 94 |
| 1882 | 47 | 46 | 65 | 62 | 220 | 38 | 30 | 35 | 45 | 148 | 32 | 28 | 29 | 31 | 120 |
| 1883 | 63 | 31 | 59 | 49 | 202 | 21 | 13 | 24 | 26 | 84 | 16 | 13 | 20 | 19 | 77 |
| 1884 | 46 | 68 | 56 | 46 | 216 | 28 | 22 | 42 | 38 | 130 | 14 | 27 | 24 | 25 | 90 |
| 1885 | 32 | 30 | 46 | 38 | 146 | 38 | 47 | 44 | 43 | 172 | 35 | 34 | 39 | 27 | 135 |
| 1886 | 49 | 57 | 59 | 56 | 221 | 24 | 25 | 36 | 35 | 120 | 26 | 16 | 21 | 28 | 91 |
| 1887 | 35 | 36 | 50 | 49 | 170 | 41 | 24 | 44 | 39 | 148 | 23 | 27 | 45 | 18 | 113 |
| 1888 | 63 | 54 | 44 | 58 | 219 | 35 | 27 | 31 | 40 | 133 | 27 | 27 | 29 | 36 | 119 |
| Total | 578 | 574 | 652 | 642 | 2,446 | 398 | 372 | 482 | 477 | 1,729 | 275 | 270 | 378 | 329 | 1,252 |
| Totals by color .. | 1,152 | | 1,294 |  | ..... | 770 | | 959 |  | ..... | 545 | | 707 |  | ..... |
| Totals by sex .. | 1,230 | | 1,216 |  | ..... | 880 | | 849 |  | ..... | 653 | | 599 |  | ..... |

| Year. | October. | | | | | November. | | | | | December. | | | | |
|--------------------|----------|-----|----------|-----|--------|-----------|-----|----------|-----|--------|-----------|-----|----------|-----|--------|
| | White. | | Colored. | | Total. | White. | | Colored. | | Total. | White. | | Colored. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | |
| 1876 | 7 | 5 | 14 | 13 | 39 | 4 | 7 | 7 | 14 | 32 | 8 | 3 | 20 | 10 | 41 |
| 1877 | 14 | 9 | 30 | 25 | 78 | 12 | 6 | 16 | 19 | 53 | 11 | 10 | 24 | 27 | 72 |
| 1878 | 14 | 15 | 22 | 17 | 68 | 15 | 10 | 18 | 22 | 65 | 9 | 6 | 25 | 24 | 64 |
| 1879 | 11 | 14 | 25 | 18 | 68 | 13 | 5 | 32 | 18 | 68 | 19 | 10 | 24 | 16 | 69 |
| 1880 | 12 | 4 | 25 | 22 | 63 | 16 | 9 | 19 | 21 | 65 | 14 | 11 | 27 | 21 | 73 |
| 1881 | 20 | 8 | 28 | 24 | 80 | 15 | 5 | 19 | 23 | 62 | 16 | 9 | 20 | 27 | 72 |
| 1882 | 22 | 17 | 32 | 14 | 85 | 17 | 16 | 30 | 20 | 83 | 13 | 13 | 20 | 20 | 66 |
| 1883 | 24 | 23 | 24 | 26 | 97 | 11 | 12 | 25 | 19 | 67 | 9 | 14 | 23 | 17 | 63 |
| 1884 | 16 | 11 | 19 | 12 | 58 | 13 | 14 | 20 | 19 | 66 | 20 | 9 | 24 | 33 | 86 |
| 1885 | 15 | 20 | 30 | 21 | 86 | 19 | 14 | 21 | 19 | 73 | 22 | 11 | 25 | 21 | 79 |
| 1886 | 13 | 8 | 19 | 21 | 61 | 14 | 15 | 23 | 20 | 72 | 13 | 10 | 20 | 16 | 59 |
| 1887 | 27 | 23 | 35 | 26 | 111 | 13 | 11 | 25 | 22 | 71 | 23 | 7 | 21 | 14 | 65 |
| 1888 | 25 | 8 | 28 | 24 | 85 | 11 | 11 | 17 | 21 | 60 | 24 | 13 | 21 | 22 | 80 |
| Total | 220 | 165 | 331 | 263 | 979 | 173 | 135 | 272 | 257 | 837 | 201 | 126 | 294 | 268 | 889 |
| Totals by color .. | 385 | | 594 |  | ..... | 308 | | 529 |  | ..... | 327 | | 562 |  | ..... |
| Totals by sex .. | 551 | | 428 |  | ..... | 445 | | 392 |  | ..... | 495 | | 394 |  | ..... |

TABLE XXII.—Deaths of children under one year of age, by sex and color, etc.—Continued.

| Year. | January. | | | | | February. | | | | | March. | | | | |
|--------------------|----------|-----|----------|-----|--------|-----------|-----|----------|-----|--------|--------|-----|----------|-----|--------|
| | White. | | Colored. | | Total. | White. | | Colored. | | Total. | White. | | Colored. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | |
| | | | | | | | | | | | | | | | |
| 1876 | 6 | 8 | 15 | 13 | 42 | 12 | 6 | 17 | 20 | 55 | 11 | 10 | 25 | 12 | 58 |
| 1877 | 20 | 18 | 24 | 18 | 80 | 19 | 18 | 28 | 32 | 97 | 25 | 17 | 34 | 19 | 95 |
| 1878 | 13 | 12 | 30 | 24 | 79 | 18 | 7 | 20 | 12 | 57 | 23 | 16 | 22 | 15 | 76 |
| 1879 | 22 | 10 | 29 | 24 | 85 | 13 | 12 | 24 | 28 | 76 | 27 | 15 | 33 | 23 | 98 |
| 1880 | 16 | 19 | 16 | 20 | 71 | 21 | 22 | 26 | 22 | 91 | 13 | 13 | 35 | 26 | 87 |
| 1881 | 11 | 18 | 15 | 20 | 64 | 20 | 12 | 19 | 34 | 85 | 14 | 15 | 25 | 26 | 80 |
| 1882 | 7 | 11 | 25 | 21 | 64 | 11 | 7 | 23 | 32 | 73 | 16 | 14 | 36 | 24 | 90 |
| 1883 | 22 | 7 | 23 | 29 | 81 | 15 | 3 | 26 | 23 | 67 | 9 | 19 | 26 | 21 | 75 |
| 1884 | 18 | 16 | 31 | 29 | 94 | 19 | 9 | 18 | 25 | 71 | 17 | 11 | 24 | 25 | 77 |
| 1885 | 19 | 10 | 27 | 18 | 74 | 21 | 11 | 30 | 31 | 93 | 25 | 15 | 30 | 20 | 90 |
| 1886 | 24 | 17 | 16 | 29 | 86 | 25 | 15 | 29 | 17 | 86 | 13 | 19 | 25 | 21 | 78 |
| 1887 | 16 | 15 | 24 | 20 | 75 | 9 | 4 | 21 | 14 | 48 | 24 | 15 | 26 | 24 | 89 |
| 1888 | 17 | 12 | 33 | 28 | 90 | 18 | 11 | 29 | 24 | 82 | 20 | 29 | 42 | 25 | 116 |
| Total | 211 | 173 | 308 | 293 | 985 | 221 | 137 | 309 | 314 | 981 | 237 | 208 | 383 | 281 | 1,109 |
| Totals by color .. | 384 | | 601 |  | ..... | 358 | | 623 |  | ..... | 445 | | 664 |  | ..... |
| Totals by sex .. | 519 | | 466 |  | ..... | 530 | | 451 |  | ..... | 620 | | 489 |  | ..... |

| Year. | April. | | | | | May. | | | | | June. | | | | | Grand totals by years. |
|------------------|--------|-----|----------|-----|--------|--------|-----|----------|-----|--------|--------|-----|----------|-----|--------|------------------------|
| | White. | | Colored. | | Total. | White. | | Colored. | | Total. | White. | | Colored. | | Total. | |
| | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | | |
| | | | | | | | | | | | | | | | | |
| 1876 | 7 | 5 | 21 | 10 | 43 | 12 | 10 | 12 | 17 | 51 | 58 | 44 | 52 | 45 | 199 | 1,041 |
| 1877 | 9 | 18 | 25 | 15 | 67 | 11 | 13 | 24 | 20 | 68 | 42 | 32 | 46 | 41 | 161 | 1,133 |
| 1878 | 10 | 13 | 32 | 26 | 81 | 38 | 30 | 45 | 42 | 155 | 49 | 28 | 65 | 41 | 183 | 1,165 |
| 1879 | 24 | 15 | 20 | 20 | 79 | 15 | 15 | 21 | 16 | 67 | 52 | 55 | 55 | 48 | 210 | 1,200 |
| 1880 | 13 | 15 | 33 | 23 | 84 | 29 | 22 | 32 | 31 | 114 | 47 | 48 | 60 | 67 | 222 | 1,305 |
| 1881 | 14 | 14 | 26 | 21 | 75 | 14 | 6 | 24 | 12 | 56 | 39 | 18 | 32 | 26 | 115 | 1,041 |
| 1882 | 8 | 14 | 17 | 18 | 57 | 14 | 6 | 33 | 15 | 68 | 39 | 32 | 38 | 54 | 163 | 1,247 |
| 1883 | 11 | 14 | 28 | 20 | 73 | 18 | 16 | 20 | 12 | 66 | 30 | 24 | 39 | 34 | 127 | 1,079 |
| 1884 | 15 | 10 | 21 | 18 | 64 | 17 | 7 | 24 | 17 | 65 | 45 | 50 | 50 | 43 | 188 | 1,205 |
| 1885 | 18 | 15 | 40 | 17 | 90 | 9 | 13 | 23 | 23 | 68 | 45 | 38 | 63 | 49 | 195 | 1,301 |
| 1886 | 18 | 15 | 39 | 19 | 91 | 14 | 6 | 25 | 25 | 70 | 35 | 25 | 32 | 33 | 125 | 1,161 |
| 1887 | 14 | 13 | 26 | 22 | 75 | 14 | 13 | 25 | 24 | 76 | 64 | 50 | 57 | 68 | 239 | 1,280 |
| 1888 | 22 | 15 | 23 | 27 | 87 | 18 | 13 | 29 | 22 | 82 | 40 | 60 | 48 | 54 | 202 | 1,355 |
| Total | 183 | 176 | 351 | 256 | 966 | 223 | 170 | 337 | 276 | 1,006 | 585 | 504 | 637 | 603 | 2,329 | 15,308 |
| Totals by color. | 359 | | 607 | | | 393 | | 613 | | | 1,089 | | 1,240 | | | { 6,515 W.
8,993 C. |
| Totals by sex .. | 534 | | 432 | | | 570 | | 446 | | | 1,222 | | 1,107 | | | { 8,239 M.
7,269 F. |

TABLE XXIII.—Deaths of children under five years of age, in the District of Columbia.

| Years. | January. | | | February. | | | March. | | | April. | | | May. | | | June. | | |
|-----------|----------|------|-------|-----------|------|-------|--------|------|-------|--------|------|-------|------|------|-------|-------|-------|-------|
| | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. |
| 1880..... | | | | | | | | | | | | | | | | | | |
| 1881..... | 47 | 59 | 106 | 49 | 87 | 136 | 51 | 98 | 149 | 50 | 87 | 137 | 45 | 52 | 97 | 71 | 77 | 148 |
| 1882..... | 54 | 77 | 131 | 62 | 96 | 158 | 73 | 84 | 157 | 48 | 51 | 99 | 65 | 68 | 133 | 10 | 110 | 212 |
| 1883..... | 52 | 75 | 127 | 39 | 74 | 113 | 82 | 80 | 171 | 48 | 84 | 132 | 58 | 55 | 113 | 80 | 89 | 169 |
| 1884..... | 74 | 106 | 180 | 68 | 97 | 165 | 59 | 81 | 140 | 62 | 65 | 127 | 46 | 69 | 115 | 123 | 123 | 246 |
| 1885..... | 56 | 80 | 136 | 58 | 104 | 162 | 69 | 88 | 157 | 49 | 104 | 153 | 42 | 83 | 125 | 112 | 144 | 256 |
| 1886..... | 61 | 70 | 131 | 57 | 75 | 132 | 46 | 85 | 131 | 37 | 89 | 126 | 30 | 66 | 96 | 80 | 88 | 168 |
| 1887..... | 46 | 62 | 108 | 23 | 61 | 84 | 18 | 79 | 137 | 52 | 72 | 124 | 38 | 68 | 106 | 135 | 153 | 288 |
| 1888..... | 49 | 96 | 145 | 67 | 88 | 155 | 95 | 105 | 200 | 61 | 77 | 138 | 54 | 74 | 128 | 129 | 117 | 246 |
| Total ... | 439 | 625 | 1,064 | 423 | 682 | 1,105 | 533 | 709 | 1,242 | 407 | 629 | 1,036 | 378 | 535 | 913 | 832 | 901 | 1,733 |
| Mean ... | 54.9 | 78.1 | 133.0 | 52.9 | 85.2 | 138.1 | 66.6 | 88.6 | 155.2 | 50.9 | 78.6 | 130.5 | 47.2 | 66.9 | 114.1 | 104.0 | 112.6 | 216.6 |

| Years. | July. | | | August. | | | September. | | | October. | | | November. | | | December. | | |
|-----------|-------|-------|-------|---------|-------|-------|------------|------|-------|----------|------|-------|-----------|------|-------|-----------|------|-------|
| | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. |
| 1880..... | 86 | 120 | 206 | 69 | 95 | 164 | 56 | 95 | 151 | 67 | 79 | 146 | 52 | 65 | 117 | 53 | 68 | 121 |
| 1881..... | 114 | 145 | 259 | 95 | 125 | 220 | 86 | 101 | 187 | 71 | 86 | 157 | 56 | 89 | 145 | 40 | 67 | 107 |
| 1882..... | 108 | 133 | 241 | 50 | 91 | 141 | 40 | 85 | 125 | 71 | 68 | 139 | 45 | 72 | 117 | 49 | 57 | 106 |
| 1883..... | 149 | 140 | 289 | 75 | 117 | 192 | 70 | 88 | 158 | 39 | 71 | 110 | 46 | 85 | 131 | 79 | 118 | 197 |
| 1884..... | 72 | 113 | 185 | 114 | 118 | 23 | 94 | 103 | 197 | 52 | 71 | 123 | 50 | 58 | 108 | 53 | 73 | 126 |
| 1885..... | 131 | 158 | 289 | 66 | 100 | 166 | 67 | 72 | 139 | 35 | 66 | 101 | 39 | 76 | 115 | 41 | 61 | 102 |
| 1886..... | 85 | 113 | 198 | 83 | 118 | 201 | 77 | 98 | 175 | 65 | 96 | 161 | 41 | 71 | 112 | 42 | 56 | 98 |
| 1887..... | 137 | 118 | 255 | 83 | 92 | 175 | 79 | 86 | 165 | 51 | 61 | 112 | 37 | 56 | 93 | 57 | 70 | 127 |
| 1888..... | | | | | | | | | | | | | | | | | | |
| Total ... | 882 | 1,040 | 1,922 | 635 | 856 | 1,491 | 56 | 728 | 1,297 | 451 | 598 | 1,049 | 366 | 572 | 938 | 414 | 570 | 984 |
| Mean ... | 110.2 | 130.6 | 240.2 | 79.4 | 107.0 | 186.4 | 71.1 | 91.0 | 162.1 | 56.4 | 74.8 | 131.2 | 45.7 | 71.5 | 117.2 | 51.7 | 71.2 | 122.9 |

TABLE XXIV.—Percentage of deaths of those under ONE year old to total deaths of all ages, also to total births and to total deaths of those under five years of age, and total deaths per 1,000 inhabitants of children under one year of age, for THIRTEEN years from July 1, 1875, to June 30, 1888, inclusive.

| Year. | Total deaths of those under one year old. | Total deaths of all ages. | Percentage of deaths of those under one year old to total deaths of all ages. | Total births reported, not including still-births. | Percentage of deaths of those under one year old to total births not including still-births. | Total deaths of those under five years old. | Percentage of deaths of those under ONE year old, to total deaths of those under FIVE years old. | Total deaths per 1,000 inhabitants of those under one year of age. |
|------------|---|---------------------------|---|--|--|---|--|--|
| 1876 | 1,041 | 2,160 | 25.00 | 4,289 | 24.27 | 1,563 | 66.60 | 669 |
| 1877..... | 1,125 | 4,208 | 26.92 | 3,811 | 29.73 | 1,856 | 61.04 | 697 |
| 1878..... | 1,055 | 4,231 | 27.53 | 3,912 | 29.78 | 1,806 | 64.50 | 696 |
| 1879..... | 1,206 | 4,309 | 27.98 | 3,816 | 31.60 | 2,020 | 59.70 | 699 |
| 1880..... | 1,305 | 4,207 | 33.39 | 4,095 | 34.31 | 1,958 | 71.75 | 735 |
| 1881..... | 1,041 | 4,136 | 25.17 | 3,595 | 28.96 | 1,678 | 62.04 | 568 |
| 1882..... | 1,237 | 4,571 | 27.06 | 3,391 | 36.48 | 1,873 | 66.00 | 655 |
| 1883..... | 1,079 | 4,286 | 25.18 | 3,116 | 34.95 | 1,669 | 65.25 | 567 |
| 1884..... | 1,205 | 4,814 | 25.03 | 3,224 | 37.38 | 2,014 | 59.24 | 613 |
| 1885..... | 1,301 | 4,998 | 26.03 | 3,314 | 39.05 | 1,957 | 66.48 | 655 |
| 1886..... | 1,160 | 4,674 | 25.24 | 3,516 | 33.56 | 1,703 | 69.29 | 566 |
| 1887..... | 1,280 | 4,665 | 27.43 | 3,728 | 34.33 | 1,791 | 71.47 | 609 |
| 1888..... | 1,355 | 5,040 | 26.80 | 3,670 | 36.91 | 1,935 | 70.00 | 600 |
| Total | 15,508 | 58,299 | ..... | 47,497 | ..... | 23,843 | ..... | ..... |
| Mean | ..... | ..... | 26.65 | ..... | 32.17 | ..... | 65.60 | 639 |

TABLE XXV.—Deaths of persons over sixty years of age—less those by violence.

| Years. | January. | | | February. | | | March. | | | April. | | | May. | | | June. | | |
|------------|----------|------|------|-----------|------|------|--------|------|------|--------|------|------|------|------|------|-------|------|------|
| | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. |
| 1880..... | | | 78 | | | 57 | | | 68 | | | 74 | | | 60 | | | 47 |
| 1881..... | 56 | 21 | 77 | 37 | 36 | 73 | 53 | 17 | 70 | 43 | 32 | 75 | 28 | 25 | 63 | 30 | 24 | 54 |
| 1882..... | 45 | 23 | 68 | 42 | 21 | 63 | 56 | 30 | 86 | 57 | 17 | 74 | 51 | 17 | 68 | 36 | 20 | 56 |
| 1883..... | 50 | 24 | 74 | 53 | 22 | 75 | 64 | 25 | 89 | 53 | 30 | 83 | 32 | 29 | 52 | 34 | 17 | 51 |
| 1884..... | 51 | 26 | 77 | 68 | 31 | 99 | 72 | 36 | 108 | 48 | 31 | 79 | 34 | 32 | 66 | 53 | 28 | 81 |
| 1885..... | 50 | 17 | 67 | 51 | 43 | 94 | 68 | 30 | 98 | 56 | 26 | 82 | 42 | 28 | 70 | 39 | 21 | 60 |
| 1886..... | 57 | 21 | 78 | 43 | 26 | 69 | 54 | 17 | 71 | 47 | 31 | 78 | 33 | 25 | 58 | 40 | 22 | 62 |
| 1887..... | 68 | 30 | 98 | 66 | 22 | 88 | 72 | 29 | 101 | 52 | 19 | 71 | 56 | 22 | 78 | 39 | 27 | 66 |
| Total..... | 377 | 162 | 617 | 360 | 201 | 618 | 439 | 184 | 691 | 356 | 186 | 616 | 286 | 169 | 515 | 271 | 159 | 417 |
| Mean..... | 53.9 | 23.1 | 77.0 | 51.4 | 28.7 | 77.2 | 62.7 | 26.3 | 86.4 | 50.8 | 26.6 | 77.0 | 40.8 | 24.1 | 64.1 | 38.7 | 22.7 | 59.6 |

| Years. | July. | | | August. | | | September. | | | October. | | | November. | | | December. | | |
|------------|-------|------|------|---------|------|------|------------|------|------|----------|------|------|-----------|------|------|-----------|------|------|
| | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. | W. | C. | T. |
| 1880..... | | | 47 | | | 38 | | | 60 | | | 62 | | | 43 | | | 66 |
| 1881..... | 43 | 20 | 63 | 38 | 26 | 64 | 26 | 18 | 44 | 52 | 21 | 73 | 44 | 21 | 65 | 49 | 22 | 71 |
| 1882..... | 34 | 21 | 55 | 31 | 22 | 53 | 26 | 25 | 51 | 31 | 29 | 60 | 29 | 17 | 46 | 37 | 21 | 58 |
| 1883..... | 51 | 19 | 70 | 38 | 28 | 66 | 33 | 16 | 49 | 32 | 16 | 48 | 49 | 17 | 66 | 64 | 24 | 88 |
| 1884..... | 41 | 31 | 72 | 29 | 25 | 54 | 32 | 16 | 48 | 46 | 17 | 63 | 46 | 26 | 72 | 39 | 31 | 70 |
| 1885..... | 61 | 31 | 92 | 48 | 23 | 71 | 38 | 28 | 66 | 38 | 17 | 55 | 35 | 26 | 61 | 38 | 21 | 59 |
| 1886..... | 49 | 31 | 80 | 42 | 27 | 69 | 64 | 25 | 89 | 44 | 17 | 61 | 47 | 26 | 73 | 47 | 25 | 72 |
| 1887..... | 59 | 40 | 89 | 40 | 26 | 66 | 48 | 32 | 80 | 58 | 18 | 76 | 45 | 30 | 75 | 49 | 22 | 71 |
| 1888..... | | | | | | | | | | | | | | | | | | |
| Total..... | 338 | 183 | 568 | 266 | 177 | 481 | 267 | 160 | 487 | 301 | 135 | 498 | 295 | 163 | 501 | 323 | 166 | 555 |
| Mean..... | 48.3 | 26.1 | 71.0 | 38.0 | 25.3 | 60.1 | 38.1 | 22.9 | 60.9 | 43.0 | 19.3 | 62.2 | 42.1 | 23.3 | 62.6 | 46.1 | 23.7 | 69.4 |

TABLE XXVI.—Deaths from diarrheal diseases during Eleven Years from January 1, 1877, to December 31, 1887, inclusive.

| Months. | Year. | | | | | | | | | | | | | | | | | |
|---------------------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|
| | 1877. | | | 1878. | | | 1879. | | | 1880. | | | 1881. | | | 1882. | | |
| | Color. | | Total. | Color. | | Total. | Color. | | Total. | Color. | | Total. | Color. | | Total. | Color. | | Total. |
| | W. | C. | | W. | C. | | W. | C. | | W. | C. | | W. | C. | | W. | C. | |
| January..... | 2 | 3 | 5 | 6 | 0 | 6 | 6 | 1 | 7 | 3 | 2 | 5 | 3 | 2 | 5 | 2 | 4 | 6 |
| February..... | 1 | 2 | 3 | 1 | 1 | 2 | 4 | 2 | 6 | 3 | 4 | 7 | 4 | 3 | 7 | 4 | 2 | 6 |
| March..... | 6 | 3 | 9 | 6 | 2 | 8 | 0 | 2 | 2 | 4 | 0 | 4 | 3 | 0 | 3 | 6 | 1 | 7 |
| April..... | 0 | 0 | 0 | 3 | 3 | 6 | 3 | 2 | 5 | 4 | 2 | 6 | 5 | 2 | 7 | 4 | 4 | 8 |
| May..... | 3 | 1 | 4 | 32 | 19 | 51 | 7 | 2 | 9 | 15 | 18 | 33 | 5 | 5 | 10 | 5 | 3 | 8 |
| June..... | 46 | 32 | 78 | 46 | 47 | 93 | 78 | 51 | 129 | 54 | 57 | 111 | 39 | 28 | 67 | 46 | 43 | 89 |
| July..... | 59 | 83 | 142 | 33 | 76 | 109 | 72 | 73 | 145 | 33 | 42 | 75 | 72 | 70 | 142 | 64 | 80 | 144 |
| August..... | 39 | 53 | 92 | 30 | 52 | 82 | 31 | 35 | 66 | 11 | 26 | 37 | 51 | 63 | 114 | 29 | 40 | 69 |
| September..... | 16 | 16 | 32 | 7 | 15 | 22 | 17 | 30 | 47 | 11 | 17 | 28 | 40 | 32 | 72 | 5 | 26 | 31 |
| October..... | 9 | 11 | 20 | 12 | 8 | 20 | 7 | 16 | 23 | 7 | 9 | 16 | 17 | 20 | 37 | 7 | 9 | 16 |
| November..... | 4 | 5 | 9 | 3 | 1 | 4 | 2 | 6 | 8 | 4 | 4 | 8 | 12 | 10 | 22 | 6 | 7 | 13 |
| December..... | 3 | 3 | 6 | 3 | 2 | 5 | 2 | 2 | 4 | 3 | 2 | 5 | 1 | 2 | 3 | 2 | 3 | 5 |
| Totals by color.... | 188 | 212 | 400 | 182 | 226 | 408 | 229 | 222 | 451 | 152 | 183 | 335 | 252 | 237 | 489 | 180 | 222 | 402 |
| Monthly averages | 15.7 | 17.6 | 33.3 | 15.2 | 18.8 | 34.0 | 9.1 | 18.5 | 37.6 | 12.6 | 15.3 | 27.9 | 21.0 | 19.7 | 40.7 | 15.0 | 18.5 | 33.5 |

TABLE XXVI.—Deaths from diarrheal diseases, etc.—Continued.

| Months. | Year. | | | | | | | | | | | | | | |
|------------------------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|
| | 1883. | | | 1884. | | | 1885. | | | 1886. | | | 1887. | | |
| | Color. | | Total. | Color. | | Total. | Color. | | Total. | Color. | | Total. | Color. | | Total. |
| | W. | C. | | W. | C. | | W. | C. | | W. | C. | | W. | C. | |
| January | 0 | 1 | 1 | 1 | 0 | 1 | 3 | 2 | 5 | 2 | 0 | 2 | 2 | 0 | 2 |
| February | 2 | 0 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 3 | 1 | 4 | 2 | 3 | 5 |
| March | 1 | 3 | 4 | 3 | 5 | 8 | 2 | 4 | 6 | 3 | 0 | 3 | 3 | 0 | 3 |
| April | 2 | 3 | 5 | 3 | 1 | 4 | 0 | 4 | 4 | 0 | 2 | 2 | 2 | 5 | 7 |
| May | 5 | 3 | 8 | 1 | 7 | 8 | 3 | 2 | 5 | 3 | 1 | 4 | 0 | 9 | 9 |
| June | 34 | 25 | 59 | 49 | 59 | 99 | 57 | 43 | 100 | 31 | 20 | 51 | 68 | 69 | 137 |
| July | 69 | 61 | 130 | 40 | 46 | 86 | 71 | 71 | 142 | 46 | 36 | 82 | 68 | 63 | 131 |
| August | 39 | 40 | 79 | 48 | 37 | 85 | 27 | 31 | 58 | 35 | 43 | 78 | 28 | 35 | 63 |
| September | 9 | 23 | 32 | 35 | 31 | 66 | 19 | 14 | 33 | 19 | 15 | 34 | 18 | 15 | 33 |
| October | 4 | 5 | 9 | 8 | 12 | 20 | 12 | 6 | 18 | 6 | 10 | 16 | 9 | 9 | 18 |
| November | 5 | 6 | 11 | 5 | 7 | 12 | 2 | 4 | 6 | 11 | 4 | 15 | 0 | 1 | 1 |
| December | 3 | 1 | 4 | 4 | 3 | 7 | 0 | 2 | 2 | 2 | 3 | 5 | 7 | 2 | 9 |
| Totals by color | 173 | 171 | 344 | 198 | 201 | 399 | 197 | 185 | 382 | 161 | 135 | 296 | 207 | 211 | 418 |
| Monthly averages | 14.4 | 14.2 | 28.6 | 16.5 | 16.7 | 33.1 | 16.4 | 15.4 | 31.8 | 13.4 | 11.2 | 24.6 | 17.2 | 17.6 | 34.8 |

TABLE XXVII.—Showing deaths from consumption, by sex, color, and months, for the Twelve Years ending December 31, 1887.

| Year. | January. | | | | February. | | | | March. | | | | April. | | | | May. | | | |
|----------------------------|----------|-----|------|-----|-----------|-----|------|-----|--------|-----|------|-----|--------|-----|------|-----|--------|-----|------|-----|
| | White. | | Col. | | White. | | Col. | | White. | | Col. | | White. | | Col. | | White. | | Col. | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| 1876 | 28 | 13 | 6 | 11 | 18 | 14 | 19 | 18 | 17 | 14 | 6 | 12 | 17 | 9 | 16 | 18 | 8 | 14 | 9 | 13 |
| 1877 | 13 | 10 | 6 | 15 | 15 | 19 | 5 | 8 | 12 | 14 | 13 | 10 | 13 | 15 | 12 | 12 | 24 | 10 | 10 | 10 |
| 1878 | 14 | 33 | 20 | 24 | 13 | 19 | 13 | 13 | 18 | 18 | 19 | 15 | 14 | 18 | 20 | 16 | 7 | 14 | 10 | 17 |
| 1879 | 26 | 12 | 6 | 17 | 15 | 14 | 13 | 16 | 15 | 17 | 21 | 16 | 12 | 18 | 17 | 16 | 9 | 10 | 20 | 13 |
| 1880 | 18 | 11 | 18 | 21 | 22 | 18 | 16 | 28 | 14 | 15 | 30 | 19 | 16 | 18 | 14 | 19 | 11 | 22 | 15 | 25 |
| 1881 | 21 | 22 | 14 | 12 | 14 | 15 | 16 | 25 | 17 | 16 | 18 | 26 | 17 | 11 | 22 | 35 | 22 | 13 | 18 | 17 |
| 1882 | 15 | 11 | 14 | 26 | 20 | 11 | 20 | 16 | 24 | 25 | 15 | 20 | 15 | 18 | 13 | 23 | 15 | 17 | 18 | 17 |
| 1883 | 19 | 17 | 13 | 23 | 10 | 16 | 15 | 24 | 28 | 23 | 17 | 26 | 13 | 17 | 15 | 20 | 16 | 12 | 14 | 20 |
| 1884 | 22 | 18 | 12 | 30 | 16 | 14 | 27 | 23 | 16 | 16 | 16 | 16 | 14 | 24 | 8 | 27 | 24 | 8 | 22 | 23 |
| 1885 | 14 | 13 | 24 | 18 | 23 | 20 | 12 | 23 | 16 | 16 | 24 | 14 | 18 | 24 | 21 | 21 | 20 | 12 | 14 | 35 |
| 1886 | 19 | 14 | 13 | 23 | 13 | 15 | 13 | 21 | 17 | 21 | 21 | 20 | 14 | 12 | 22 | 20 | 16 | 12 | 14 | 24 |
| 1887 | 16 | 18 | 15 | 18 | 23 | 10 | 13 | 18 | 21 | 19 | 12 | 24 | 13 | 16 | 17 | 21 | 5 | 10 | 9 | 16 |
| Total by sex and color.... | 225 | 192 | 161 | 238 | 202 | 185 | 182 | 243 | 215 | 214 | 212 | 218 | 176 | 200 | 197 | 248 | 177 | 154 | 173 | 232 |
| Total by color... | 417 | | 399 | | 387 | | 425 | | 429 | | 430 | | 376 | | 445 | | 331 | | 405 | |
| Grand total... | 816 | | | | 812 | | | | 859 | | | | 821 | | | | 736 | | | |

TABLE XXVII.—*Showing deaths from consumption by sex, color, and months, etc.—Cont'd.*

| Year. | June. | | | | July. | | | | August. | | | | September. | | | |
|-----------------------------|--------|-----|------|-----|--------|-----|------|-----|---------|-----|------|-----|------------|-----|------|-----|
| | White. | | Col. | | White. | | Col. | | White. | | Col. | | White. | | Col. | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| 1876..... | 19 | 9 | 12 | 11 | 10 | 15 | 15 | 14 | 5 | 7 | 7 | 19 | 11 | 11 | 10 | 9 |
| 1877..... | 11 | 8 | 15 | 20 | 7 | 12 | 10 | 20 | 10 | 10 | 9 | 17 | 16 | 9 | 7 | 12 |
| 1878..... | 11 | 10 | 11 | 21 | 9 | 14 | 9 | 25 | 16 | 18 | 16 | 18 | 13 | 13 | 10 | 23 |
| 1879..... | 15 | 13 | 15 | 26 | 11 | 13 | 13 | 20 | 11 | 10 | 10 | 19 | 14 | 9 | 12 | 19 |
| 1880..... | 10 | 10 | 14 | 23 | 10 | 12 | 7 | 14 | 15 | 16 | 8 | 17 | 12 | 12 | 13 | 16 |
| 1881..... | 14 | 11 | 16 | 14 | 6 | 14 | 17 | 28 | 15 | 9 | 13 | 19 | 13 | 9 | 15 | 29 |
| 1882..... | 14 | 10 | 12 | 24 | 9 | 11 | 9 | 18 | 9 | 11 | 12 | 9 | 11 | 13 | 15 | 18 |
| 1883..... | 10 | 9 | 13 | 16 | 14 | 18 | 13 | 13 | 9 | 14 | 11 | 23 | 18 | 12 | 16 | 19 |
| 1884..... | 13 | 16 | 16 | 22 | 19 | 20 | 14 | 16 | 17 | 16 | 14 | 9 | 14 | 13 | 10 | 18 |
| 1885..... | 9 | 11 | 10 | 24 | 14 | 20 | 18 | 22 | 11 | 15 | 11 | 23 | 16 | 15 | 14 | 20 |
| 1886..... | 14 | 11 | 26 | 25 | 13 | 14 | 13 | 18 | 12 | 12 | 15 | 14 | 19 | 12 | 14 | 13 |
| 1887..... | 9 | 12 | 16 | 13 | 9 | 13 | 12 | 21 | 8 | 14 | 7 | 14 | 14 | 20 | 12 | 22 |
| Total by sex and color..... | 149 | 130 | 176 | 239 | 131 | 176 | 150 | 229 | 138 | 152 | 133 | 201 | 171 | 148 | 148 | 218 |
| Total by color... | 279 | | 415 | | 307 | | 379 | | 290 | | 334 | | 319 | | 366 | |
| Grand total..... | 694 | | | | 686 | | | | 624 | | | | 685 | | | |

| Year. | October. | | | | November. | | | | December. | | | | Total. | | | |
|-----------------------------|----------|-----|------|-----|-----------|-----|------|-----|-----------|-----|------|-----|--------|-------|-------|-------|
| | White. | | Col. | | White. | | Col. | | White. | | Col. | | White. | | Col. | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| 1876..... | 14 | 14 | 12 | 13 | 17 | 13 | 9 | 21 | 14 | 13 | 7 | 13 | 178 | 146 | 128 | 172 |
| 1877..... | 14 | 17 | 8 | 24 | 12 | 13 | 13 | 9 | 18 | 17 | 13 | 14 | 165 | 154 | 121 | 181 |
| 1878..... | 9 | 18 | 7 | 10 | 14 | 23 | 8 | 10 | 18 | 13 | 15 | 15 | 156 | 201 | 158 | 207 |
| 1879..... | 9 | 13 | 4 | 13 | 14 | 9 | 16 | 16 | 16 | 20 | 11 | 17 | 167 | 158 | 158 | 208 |
| 1880..... | 18 | 14 | 14 | 21 | 17 | 11 | 9 | 18 | 17 | 20 | 8 | 14 | 180 | 179 | 166 | 235 |
| 1881..... | 17 | 18 | 15 | 17 | 22 | 18 | 13 | 14 | 17 | 20 | 15 | 18 | 195 | 176 | 192 | 254 |
| 1882..... | 14 | 14 | 15 | 13 | 12 | 16 | 15 | 16 | 9 | 11 | 21 | 23 | 167 | 168 | 179 | 223 |
| 1883..... | 14 | 7 | 18 | 9 | 14 | 19 | 14 | 25 | 21 | 12 | 10 | 23 | 186 | 176 | 169 | 241 |
| 1884..... | 13 | 10 | 15 | 14 | 18 | 14 | 16 | 8 | 14 | 13 | 18 | 19 | 200 | 192 | 188 | 225 |
| 1885..... | 14 | 15 | 12 | 19 | 12 | 7 | 17 | 14 | 20 | 17 | 10 | 20 | 187 | 185 | 187 | 253 |
| 1886..... | 20 | 11 | 15 | 19 | 16 | 17 | 18 | 20 | 22 | 18 | 10 | 15 | 195 | 169 | 194 | 232 |
| 1887..... | 18 | 14 | 15 | 9 | 13 | 19 | 16 | 16 | 20 | 12 | 5 | 16 | 169 | 177 | 149 | 210 |
| Total by sex and color..... | 174 | 165 | 150 | 181 | 181 | 179 | 164 | 187 | 206 | 186 | 143 | 207 | 2,145 | 2,081 | 1,989 | 2,641 |
| Total by color... | 339 | | 331 | | 300 | | 351 | | 392 | | 350 | | 4,226 | | 4,630 | |
| Grand total..... | 670 | | | | 711 | | | | 742 | | | | 8,856 | | | |

The percentage of deaths from consumption to total mortality is, white, 15.10; colored, 18.08; total 16.52.

TABLE XXVIII.—Total deaths from eighteen different diseases and suicides during Thirteen Years, from July 1, 1875, to June 30, 1888, inclusive, arranged by years, sex, and color.

| Diseases. | 1876. | | | | | 1877. | | | | | 1878. | | | | | 1879. | | | | |
|--|-------|-----|-----|----|--------|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|
| | W. | | C. | | Total. | W. | | C. | | Total. | W. | | C. | | Total. | W. | | C. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Consumption | 171 | 135 | 108 | 65 | 579 | 150 | 149 | 121 | 174 | 604 | 151 | 180 | 130 | 202 | 663 | 171 | 183 | 157 | 205 | 716 |
| Typhoid fever | 29 | 30 | 22 | 14 | 95 | 14 | 30 | 11 | 17 | 82 | 18 | 29 | 20 | 14 | 101 | 27 | 18 | 19 | 10 | 74 |
| Apoplexy | 30 | 32 | 22 | 10 | 104 | 40 | 34 | 12 | 24 | 110 | 33 | 24 | 10 | 22 | 89 | 24 | 20 | 15 | 16 | 75 |
| Insanity | 3 | 2 | 3 | 0 | 8 | 0 | 5 | 5 | 3 | 23 | 4 | 0 | 1 | 1 | 6 | 7 | 2 | 0 | 0 | 12 |
| Softening of brain | 10 | 2 | 4 | 1 | 17 | 13 | 4 | 2 | 1 | 20 | 9 | 11 | 1 | 0 | 21 | 8 | 7 | 1 | 5 | 21 |
| Paralysis, hemiplegia, and para-
plegia | 5 | 6 | 4 | 3 | 18 | 9 | 5 | 6 | 7 | 27 | 17 | 19 | 10 | 7 | 55 | 22 | 12 | 7 | 9 | 50 |
| Cancers | 8 | 30 | 4 | 10 | 52 | 12 | 38 | 3 | 14 | 67 | 19 | 32 | 4 | 12 | 67 | 12 | 48 | 5 | 23 | 86 |
| Epilepsy | 8 | 4 | 3 | 4 | 19 | 7 | 5 | 1 | 3 | 16 | 2 | 3 | 0 | 2 | 7 | 4 | 2 | 1 | 1 | 8 |
| Diseases of the heart | 49 | 36 | 27 | 40 | 152 | 48 | 43 | 33 | 12 | 134 | 28 | 45 | 20 | 31 | 124 | 49 | 30 | 21 | 27 | 125 |
| Bright's disease | 14 | 7 | 7 | 5 | 33 | 17 | 5 | 2 | 1 | 25 | 18 | 5 | 0 | 7 | 36 | 5 | 4 | 7 | 5 | 21 |
| Rheumatism | 5 | 1 | 1 | 3 | 10 | 2 | 6 | 4 | 3 | 15 | 3 | 0 | 1 | 0 | 4 | 0 | 4 | 3 | 4 | 11 |
| Aneurisms | 3 | 1 | 4 | 1 | 9 | 0 | 0 | 2 | 0 | 2 | 5 | 0 | 1 | 1 | 7 | 6 | 0 | 2 | 0 | 8 |
| Angina pectoris | 1 | 2 | 1 | 0 | 4 | 0 | 1 | 0 | 2 | 3 | 0 | 0 | 0 | 2 | 11 | 4 | 0 | 2 | 0 | 6 |
| Gastritis | 12 | 10 | 7 | 3 | 32 | 10 | 4 | 3 | 2 | 20 | 6 | 8 | 3 | 2 | 27 | 8 | 4 | 3 | 5 | 20 |
| Cirrhosis of liver | 8 | 0 | 1 | 0 | 9 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 4 | 7 | 2 | 1 | 0 | 0 | 5 |
| Dropsies, including hydrocephalus | 13 | 17 | 22 | 13 | 65 | 10 | 17 | 10 | 8 | 45 | 18 | 19 | 19 | 17 | 63 | 22 | 24 | 31 | 27 | 105 |
| Diabetes | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 1 | 1 | 1 | 3 |
| Hernia | 4 | 1 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 4 | 0 | 5 | 1 | 0 | 7 |
| Suicides | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 7 |

| Diseases. | 1880. | | | | | 1881. | | | | | 1882. | | | | | 1883. | | | | |
|---|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|
| | W. | | C. | | Total. | W. | | C. | | Total. | W. | | C. | | Total. | W. | | C. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Consumption | 166 | 128 | 171 | 103 | 768 | 170 | 160 | 116 | 150 | 696 | 180 | 151 | 130 | 160 | 721 | 170 | 174 | 126 | 174 | 730 |
| Typhoid fever | 10 | 24 | 18 | 22 | 74 | 14 | 30 | 10 | 18 | 72 | 17 | 27 | 13 | 23 | 100 | 18 | 20 | 16 | 17 | 82 |
| Apoplexy | 30 | 15 | 18 | 16 | 79 | 40 | 24 | 19 | 17 | 99 | 31 | 20 | 10 | 19 | 80 | 36 | 21 | 11 | 16 | 84 |
| Insanity | 9 | 5 | 1 | 2 | 17 | 0 | 7 | 3 | 2 | 22 | 28 | 4 | 4 | 7 | 43 | 31 | 8 | 6 | 6 | 51 |
| Softening of brain | 2 | 1 | 3 | 3 | 11 | 0 | 1 | 2 | 3 | 16 | 0 | 0 | 4 | 2 | 17 | 6 | 3 | 0 | 3 | 12 |
| Paralysis, hemiplegia, and para-
Cplesia | 15 | 20 | 19 | 21 | 75 | 17 | 9 | 14 | 60 | 100 | 10 | 12 | 19 | 65 | 16 | 13 | 5 | 6 | 45 | |
| Eancers | 21 | 39 | 5 | 10 | 75 | 17 | 47 | 1 | 22 | 87 | 21 | 34 | 8 | 17 | 80 | 17 | 36 | 7 | 19 | 79 |
| pilepsy | 3 | 0 | 2 | 4 | 9 | 2 | 4 | 1 | 1 | 8 | 3 | 7 | 5 | 21 | 7 | 1 | 4 | 1 | 13 | |
| Diseases of the heart | 49 | 33 | 29 | 38 | 147 | 40 | 38 | 30 | 39 | 147 | 28 | 44 | 28 | 39 | 139 | 48 | 38 | 33 | 36 | 205 |
| Bright's disease | 17 | 9 | 4 | 5 | 35 | 12 | 10 | 9 | 6 | 37 | 21 | 15 | 10 | 11 | 57 | 12 | 9 | 7 | 5 | 43 |
| Rheumatism | 5 | 2 | 4 | 2 | 13 | 0 | 7 | 3 | 4 | 24 | 4 | 9 | 0 | 6 | 19 | 9 | 15 | 7 | 7 | 38 |
| Aneurisms | 5 | 0 | 5 | 3 | 13 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 2 | 0 | 7 | 6 | 0 | 2 | 2 | 10 |
| Angina pectoris | 2 | 3 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 | 5 | 4 | 0 | 2 | 11 |
| Gastritis | 9 | 6 | 3 | 7 | 25 | 11 | 11 | 2 | 2 | 27 | 7 | 6 | 2 | 7 | 22 | 16 | 6 | 0 | 7 | 29 |
| Cirrhosis of liver | 8 | 2 | 0 | 0 | 10 | 11 | 1 | 2 | 0 | 14 | 4 | 4 | 1 | 0 | 9 | 6 | 3 | 1 | 0 | 10 |
| Dropsies, including hydrocephalus | 11 | 17 | 22 | 13 | 63 | 7 | 12 | 11 | 12 | 42 | 0 | 2 | 13 | 17 | 37 | 10 | 7 | 14 | 11 | 42 |
| Diabetes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 1 | 6 |
| Hernia | 3 | 4 | 0 | 0 | 7 | 3 | 3 | 0 | 0 | 7 | 0 | 2 | 1 | 0 | 5 | 0 | 2 | 0 | 1 | 6 |
| Suicides | 16 | 3 | 2 | 0 | 21 | 7 | 4 | 0 | 0 | 11 | 10 | 3 | 1 | 1 | 15 | 16 | 3 | 1 | 1 | 21 |

* Up to 1880 deaths of insane patients dying at the Government Insane Asylum were classed under different heads according to the immediate cause of death. Since then they have been classed under the head of "insanity," unless death occurred from an entirely independent cause.

TABLE XXVIII.—Total deaths from eighteen different diseases and suicides, etc.—Cont'd.

| Diseases. | 1884. | | | | | 1885. | | | | | 1886. | | | | | 1887. | | | | | 1888. | | | | |
|---|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|-------|-----|-----|-----|--------|
| | W. | | C. | | Total. | W. | | C. | | Total. | W. | | C. | | Total. | W. | | C. | | Total. | W. | | C. | | Total. |
| | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | | M. | F. | M. | F. | |
| Consumption .. | 195 | 188 | 183 | 253 | 819 | 195 | 182 | 192 | 219 | 788 | 180 | 174 | 191 | 251 | 796 | 189 | 169 | 167 | 211 | 736 | 164 | 186 | 129 | 223 | 702 |
| Typhoid fever. | 32 | 21 | 13 | 10 | 76 | 48 | 35 | 14 | 27 | 124 | 46 | 35 | 24 | 23 | 128 | 32 | 40 | 24 | 20 | 116 | 47 | 48 | 37 | 36 | 168 |
| Apoplexy | 44 | 36 | 16 | 18 | 114 | 43 | 24 | 24 | 10 | 101 | 40 | 34 | 22 | 29 | 125 | 46 | 32 | 17 | 20 | 115 | 66 | 30 | 19 | 23 | 138 |
| Insanity* | 32 | 6 | 12 | 6 | 56 | 56 | 13 | 17 | 7 | 93 | 68 | 16 | 11 | 6 | 101 | 52 | 13 | 18 | 9 | 92 | 77 | 16 | 13 | 11 | 117 |
| Softening of brain | 8 | 5 | 0 | 2 | 15 | 7 | 5 | 2 | 1 | 15 | 9 | 5 | 1 | 2 | 17 | 8 | 5 | 2 | 1 | 16 | 4 | 5 | 1 | 0 | 10 |
| Paralysis, hemiplegia, and paraplegia ... | 21 | 23 | 3 | 11 | 58 | 20 | 27 | 9 | 17 | 73 | 15 | 17 | 13 | 15 | 64 | 12 | 10 | 14 | 10 | 46 | 16 | 18 | 17 | 12 | 63 |
| Cancers | 22 | 44 | 4 | 20 | 90 | 25 | 61 | 10 | 23 | 119 | 27 | 53 | 4 | 19 | 103 | 25 | 55 | 8 | 26 | 114 | 27 | 47 | 4 | 22 | 100 |
| Epilepsy | 2 | 0 | 3 | 0 | 5 | 3 | 1 | 1 | 3 | 8 | 4 | 2 | 1 | 2 | 9 | 2 | 2 | 2 | 2 | 8 | 6 | 6 | 4 | 2 | 18 |
| Diseases of the heart | 78 | 51 | 33 | 60 | 222 | 65 | 78 | 40 | 52 | 235 | 72 | 48 | 41 | 74 | 235 | 66 | 77 | 45 | 52 | 241 | 81 | 68 | 58 | 66 | 273 |
| Bright's disease | 22 | 1 | 10 | 6 | 49 | 25 | 9 | 10 | 9 | 53 | 19 | 13 | 13 | 8 | 53 | 19 | 14 | 7 | 9 | 49 | 18 | 17 | 10 | 15 | 60 |
| Rheumatism ... | 15 | 9 | 6 | 6 | 36 | 11 | 10 | 7 | 6 | 34 | 21 | 6 | 4 | 3 | 34 | 13 | 13 | 3 | 7 | 36 | 17 | 18 | 5 | 13 | 53 |
| Aneurisms | 5 | 4 | 2 | 2 | 13 | 2 | 1 | 8 | 0 | 11 | 8 | 0 | 2 | 2 | 12 | 3 | 1 | 1 | 0 | 5 | 5 | 2 | 4 | 2 | 13 |
| Angina pectoris | 3 | 5 | 1 | 0 | 9 | 4 | 2 | 1 | 0 | 7 | 4 | 1 | 1 | 1 | 7 | 3 | 1 | 1 | 0 | 5 | 1 | 2 | 0 | 2 | 5 |
| Gastritis | 11 | 8 | 8 | 3 | 30 | 13 | 10 | 4 | 4 | 31 | 11 | 16 | 5 | 5 | 37 | 14 | 10 | 5 | 5 | 34 | 18 | 15 | 2 | 6 | 41 |
| Cirrhosis of liver | 2 | 2 | 0 | 2 | 6 | 9 | 5 | 1 | 0 | 15 | 9 | 5 | 2 | 1 | 17 | 10 | 3 | 1 | 1 | 15 | 9 | 4 | 2 | 1 | 16 |
| Dropsies, including hydrocephalus.. | 4 | 12 | 12 | 11 | 39 | 10 | 8 | 8 | 11 | 37 | 9 | 5 | 11 | 13 | 38 | 4 | 8 | 8 | 10 | 30 | 8 | 7 | 6 | 10 | 31 |
| Diabetes | 3 | 1 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 4 | 5 | 6 | 1 | 0 | 12 | 7 | 3 | 2 | 1 | 13 | 2 | 3 | 1 | 1 | 7 |
| Hernia | 3 | 3 | 2 | 0 | 8 | 1 | 0 | 4 | 0 | 5 | 4 | 2 | 2 | 0 | 8 | 2 | 1 | 2 | 1 | 6 | 2 | 1 | 1 | 0 | 4 |
| Suicides | 10 | 1 | 1 | 0 | 12 | 11 | 2 | 0 | 0 | 13 | 13 | 1 | 2 | 1 | 17 | 17 | 4 | 2 | 1 | 24 | 13 | 5 | 0 | 0 | 18 |

* Up to 1880 deaths of insane patients dying at the Government Insane Asylum were classed under different heads according to the immediate cause of death. Since then they have been classed under the head of "insanity," unless death occurred from an entirely independent cause.

TABLE XXIX.—Deaths from cancers, by color, sex, and nativity, from September 1, 1874, to June 3, 1888.

| Cancer of— | Color. | Sex. | Nativity. | | | | | | | | Total. |
|---------------------------------|----------|--------------|-----------------------|-----------------------------------|----------|----------|----------|---------|--------|------------------------------|--------|
| | | | District of Columbia. | Other parts of the United States. | Ireland. | England. | Germany. | France. | Italy. | Other countries and unknown. | |
| Breast | White. | Female | 20 | 69 | 19 | 4 | 3 | | | 2 | 117 |
| | Colored | Male | 1 | 2 | | | | | | | 3 |
| Uterus | | Female | 6 | 43 | | | | | | | 49 |
| | White .. | Female | 34 | 133 | 10 | 9 | 11 | 1 | 1 | 5 | 214 |
| Ovary | Colored | Female | 22 | 86 | | | | | | | 108 |
| | White .. | Female | 5 | 7 | 2 | | 2 | | | | 16 |
| Stomach. | Colored | Female | 1 | 4 | | | | | | | 5 |
| | White .. | Male | 10 | 33 | 14 | 4 | 20 | | 1 | 3 | 85 |
| | | Female | 12 | 27 | 8 | 5 | 8 | 1 | | 2 | 63 |
| | Colored | Male | 3 | 24 | | | | | | | 27 |
| Liver..... | | Female | 9 | 34 | | | | | | | 43 |
| | White .. | Male | 4 | 11 | 2 | | 9 | | | 3 | 19 |
| | | Female | 7 | 14 | 1 | 3 | 4 | | | 2 | 31 |
| | Colored | Male | | 6 | | | | | | | 6 |
| | | Female | | 3 | | | | | | | 3 |
| | White .. | Male | 13 | 58 | 14 | 3 | 2 | 1 | | 2 | 73 |
| Face, head, neck, and mouth.... | | Female | 9 | 17 | 6 | | 3 | | | | 37 |
| | Colored | Male | 1 | 10 | | | | | | | 11 |
| | | Female | | 8 | | | | | | 1 | 9 |
| | White .. | Male | 9 | 42 | 6 | 4 | 13 | 1 | | 2 | 77 |
| All other organs..... | | Female | 23 | 54 | 7 | 2 | 10 | 1 | | 2 | 99 |
| | Colored | Male | 3 | 17 | | | | | | | 20 |
| | | Female | 5 | 36 | | | | | | | 41 |
| Total..... | White. | Male..... | 36 | 154 | 36 | 11 | 44 | 2 | 1 | 10 | 264 |
| | | Female .. | 110 | 321 | 63 | 23 | 41 | 3 | 1 | 15 | 577 |
| | Colored | Male..... | 8 | 59 | | | | | | | 67 |
| | | Female .. | 43 | 214 | | | | | | 1 | 258 |
| Total by sex..... | | Male..... | 44 | 183 | 36 | 11 | 44 | 2 | 1 | 10 | 331 |
| | | Female .. | 153 | 535 | 63 | 23 | 41 | 3 | 1 | 16 | 835 |
| Total by color..... | White .. | ..... | 146 | 445 | 99 | 34 | 85 | 5 | 2 | 25 | 841 |
| | Colored | ..... | 51 | 273 | | | | | | 1 | 325 |
| Grand total ..... |  | ..... | 197 | 718 | 99 | 34 | 85 | 5 | 2 | 26 | 1,166 |

TABLE XXX.—Deaths from cancers of white females from September 1, 1874, to June 30, 1888.

| Cancer of— | Married. | | Widows. | | Single. | | Total deaths from cancers. |
|----------------------------------|----------------------|---|----------------------|--|----------------------|--|----------------------------|
| | Deaths from cancers. | Percentage to total deaths from cancers of married. | Deaths from cancers. | Percentage to total deaths from cancers of widows. | Deaths from cancers. | Percentage to total deaths from cancers of single. | |
| Breast..... | 43 | 15.03 | 49 | 24.88 | 25 | 26.88 | 117 |
| Uterus..... | 135 | 47.20 | 61 | 30.98 | 17 | 18.28 | *213 |
| Ovary..... | 11 | 3.85 | 4 | 2.03 | 1 | 1.08 | 16 |
| Stomach..... | 23 | 8.04 | 27 | 13.70 | 13 | 13.98 | 63 |
| Liver..... | 13 | 4.55 | 12 | 6.09 | 6 | 6.45 | 31 |
| Head, face, neck, and mouth..... | 14 | 4.90 | 17 | 8.62 | 6 | 6.45 | 37 |
| All others..... | 47 | 16.43 | 27 | 13.70 | 25 | 26.88 | 99 |
| Total..... | 286 | 100.00 | 197 | 100.00 | 93 | 100.00 | 576 |

* One cancer of the uterus: conjugal relation unknown.

TABLE XXXI.—Deaths from cancers of colored females from September 1, 1874, to June 30, 1888.

| Cancer of— | Married. | | Widows. | | Single. | | Total deaths from cancers. |
|----------------------------------|----------------------|---|----------------------|--|----------------------|--|----------------------------|
| | Deaths from cancers. | Percentage to total deaths from cancers of married. | Deaths from cancers. | Percentage to total deaths from cancers of widows. | Deaths from cancers. | Percentage to total deaths from cancers of single. | |
| Breast..... | 20 | 18.18 | 27 | 23.68 | 2 | 6.43 | 49 |
| Uterus..... | 52 | 47.27 | 47 | 40.18 | 9 | 29.03 | 108 |
| Ovary..... | 4 | 3.64 | 1 | .85 | | | 5 |
| Stomach..... | 13 | 11.83 | 24 | 20.53 | 6 | 19.36 | 43 |
| Liver..... | 1 | .90 | 1 | .85 | 1 | 3.23 | 3 |
| Head, face, neck, and mouth..... | 3 | 2.73 | 3 | 2.56 | 3 | 9.69 | 9 |
| All others..... | 17 | 15.45 | 14 | 11.95 | 10 | 32.26 | 41 |
| Total..... | 110 | 100.00 | 117 | 100.00 | 31 | 100.00 | 258 |

TABLE XXXII.—Deaths from cancers, by age, color, sex, etc., from September 1, 1874, to June 30, 1888.

| Age. | Color. | Sex. | Cancer of breast. | Cancer of uterus. | Cancer of ovary. | Cancer of stomach. | Cancer of liver. | Cancer of head, face, neck, and mouth. | All others. | Total. |
|---|--------------|-------------|-------------------|-------------------|------------------|--------------------|------------------|--|-------------|--------|
| Under 20 years..... | White..... | Male..... | | | | | 1 | 2 | 5 | 8 |
| | | Female..... | | 1 | | | | 4 | 6 | 11 |
| | Colored..... | Male..... | 1 | | | 1 | | 1 | 2 | 5 |
| | | Female..... | | | | 2 | | 1 | 2 | 5 |
| 20 to 30 years..... | White..... | Male..... | | | | 1 | | 1 | 2 | 4 |
| | | Female..... | | 4 | 2 | 3 | | 1 | 5 | 15 |
| | Colored..... | Male..... | | | | 2 | 1 | 1 | 4 | 8 |
| | | Female..... | 2 | 5 | 1 | 2 | | 1 | 4 | 15 |
| 30 to 40 years..... | White..... | Male..... | | | | 2 | 3 | 2 | 4 | 11 |
| | | Female..... | 7 | 33 | 2 | 1 | 2 | 1 | 10 | 56 |
| | Colored..... | Male..... | 1 | | | 3 | | | 1 | 5 |
| | | Female..... | 4 | 27 | 2 | 3 | | | 7 | 43 |
| 40 to 50 years..... | White..... | Male..... | | | | 14 | 6 | 14 | 10 | 44 |
| | | Female..... | 26 | 69 | 3 | 9 | 11 | 4 | 16 | 138 |
| | Colored..... | Male..... | | | | 11 | | 4 | 1 | 16 |
| | | Female..... | 7 | 21 | | 6 | | | 12 | 46 |
| 50 to 60 years..... | White..... | Male..... | | | | 29 | 12 | 17 | 17 | 75 |
| | | Female..... | 34 | 50 | 4 | 13 | 3 | 6 | 24 | 134 |
| | Colored..... | Male..... | | | | 4 | 3 | 3 | 7 | 17 |
| | | Female..... | 13 | 28 | 2 | 7 | | 2 | 5 | 57 |
| 60 to 70 years..... | White..... | Male..... | | | | 20 | 4 | 16 | 23 | 63 |
| | | Female..... | 30 | 37 | 4 | 22 | 7 | 6 | 24 | 130 |
| | Colored..... | Male..... | | | | 6 | | 1 | 2 | 9 |
| | | Female..... | 12 | 11 | | 9 | 1 | 1 | 7 | 41 |
| 70 to 80 years..... | White..... | Male..... | | | | 14 | 2 | 14 | 12 | 42 |
| | | Female..... | 18 | 15 | 1 | 15 | 8 | 5 | 10 | 72 |
| | Colored..... | Male..... | | | | 1 | 2 | | 3 | 6 |
| | | Female..... | 6 | 13 | | 9 | 1 | 1 | 4 | 34 |
| 80 years and over..... | White..... | Male..... | | | | 5 | 1 | 8 | 4 | 18 |
| | | Female..... | 2 | 5 | | | | 10 | | 17 |
| | Colored..... | Male..... | 1 | | | | | 1 | 2 | 4 |
| | | Female..... | 5 | 3 | | 4 | 1 | 2 | 2 | 17 |
| Totals..... | White..... | Male..... | | | | 85 | 29 | 73 | 77 | 264 |
| | | Female..... | 117 | 214 | 16 | 63 | 31 | 37 | 99 | 577 |
| | Colored..... | Male..... | 3 | | | 27 | 6 | 11 | 20 | 67 |
| | | Female..... | 49 | 108 | 5 | 43 | 3 | 9 | 41 | 258 |
| Grand total..... | | | 119 | 322 | 21 | 218 | 69 | 130 | 237 | 1,166 |
| Percentage to total deaths from cancer..... | | | 14.49 | 27.61 | 1.80 | 18.71 | 5.91 | 11.15 | 20.33 | 100.00 |

TABLE XXXIII.—Number of deaths from cancers, by color, sex, and age; total number of deaths from all causes; and number of deaths from all causes to 1 from cancer, from September 1, 1874, to June 30, 1888, inclusive.

| Cause of death. | White. | | | Colored. | | | Grand total. |
|---|---------|---------|---------|----------|---------|---------|--------------|
| | Male. | Female. | Total. | Male. | Female. | Total. | |
| Under 20 years: | | | | | | | |
| Deaths from cancers..... | 8 | 11 | 19 | 5 | 5 | 10 | 29 |
| Deaths from all causes..... | 7, 119 | 6, 749 | 13, 858 | 9, 122 | 8, 970 | 18, 092 | 31, 950 |
| Number of deaths from all causes to 1 from cancers..... | 889 | 613 | ..... | 1, 824 | 1, 794 | ..... | ..... |
| 20 to 30 years: | | | | | | | |
| Deaths from cancers..... | 4 | 15 | 19 | 8 | 15 | 23 | 42 |
| Deaths from all causes..... | 1, 301 | 1, 447 | 2, 748 | 1, 054 | 1, 492 | 2, 546 | 5, 294 |
| Number of deaths from all causes to 1 from cancers..... | 325 | 96 | ..... | 132 | 99 | ..... | ..... |
| 30 to 40 years: | | | | | | | |
| Deaths from cancers..... | 11 | 56 | 67 | 5 | 43 | 48 | 115 |
| Deaths from all causes..... | 1, 554 | 1, 418 | 2, 972 | 951 | 1, 170 | 2, 121 | 5, 093 |
| Number of deaths from all causes to 1 from cancers..... | 141 | 25 | ..... | 130 | 27 | ..... | ..... |
| 40 to 50 years: | | | | | | | |
| Deaths from cancers..... | 44 | 138 | 182 | 16 | 46 | 62 | 244 |
| Deaths from all causes..... | 1, 893 | 1, 213 | 3, 106 | 923 | 813 | 1, 736 | 4, 842 |
| Number of deaths from all causes to 1 from cancers..... | 43 | 9 | ..... | 58 | 18 | ..... | ..... |
| 50 to 60 years: | | | | | | | |
| Deaths from cancers..... | 75 | 134 | 209 | 17 | 56 | 73 | 282 |
| Deaths from all causes..... | 1, 734 | 1, 128 | 2, 862 | 763 | 627 | 1, 390 | 4, 252 |
| Number of deaths from all causes to 1 from cancers..... | 23 | 8 | ..... | 45 | 11 | ..... | ..... |
| 60 to 70 years: | | | | | | | |
| Deaths from cancers..... | 63 | 130 | 193 | 9 | 42 | 51 | 244 |
| Deaths from all causes..... | 1, 624 | 1, 287 | 2, 911 | 630 | 663 | 1, 293 | 4, 204 |
| Number of deaths from all causes to 1 from cancers..... | 26 | 10 | ..... | 70 | 16 | ..... | ..... |
| 70 to 80 years: | | | | | | | |
| Deaths from cancers..... | 42 | 72 | 114 | 6 | 34 | 40 | 154 |
| Deaths from all causes..... | 1, 328 | 1, 258 | 2, 586 | 549 | 671 | 1, 220 | 3, 806 |
| Number of deaths from all causes to 1 from cancers..... | 32 | 17 | ..... | 91 | 20 | ..... | ..... |
| 80 years and over: | | | | | | | |
| Deaths from cancers..... | 17 | 21 | 38 | 3 | 17 | 18 | 56 |
| Deaths from all causes..... | 477 | 742 | 1, 219 | 389 | 728 | 1, 117 | 2, 336 |
| Number of deaths from all causes to 1 from cancers..... | 28 | 35 | ..... | 129 | 43 | ..... | ..... |
| Total deaths from cancers..... | 264 | 577 | 841 | 69 | 258 | 325 | 1, 166 |
| Total deaths from all causes..... | 17, 030 | 15, 232 | 32, 262 | 14, 381 | 15, 134 | 29, 515 | 61, 777 |
| Number of deaths from all causes to 1 from cancers..... | 64.5 | 26.4 | 38.4 | 208.4 | 58.7 | 90.8 | 52.9 |

TABLE XXXIV.—Showing the number of still-births, including legitimates and illegitimates, with percentage of each to still-births, and of illegitimates to total illegitimate still-born, by color, for Ten Years, from 1879 to 1888, inclusive.

| Years. | Number of still-born. | Color. | | Legitimate. Illegitimate. | | | | Percentage of legiti- mates to total still-births, by color. | | Percentage of illegiti- mates to total still-births, by color. | | Percentage of illegiti- mate still-born to total illegitimate still-born, by color. | |
|---------------------|-----------------------|--------|----------|---------------------------|----------|--------|----------|--|----------|--|----------|---|----------|
| | | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. |
| | | | | | | | | | | | | | |
| 1879..... | 395 | 130 | 265 | 112 | 171 | 13 | 94 | 28.4 | 43.3 | 4.56 | 23.8 | 16.0 | 84.0 |
| 1880..... | 358 | 119 | 239 | 105 | 159 | 14 | 80 | 29.3 | 44.4 | 3.90 | 22.3 | 14.9 | 85.1 |
| 1881..... | 370 | 141 | 229 | 125 | 143 | 16 | 86 | 33.8 | 38.6 | 4.30 | 23.0 | 15.7 | 84.3 |
| 1882..... | 351 | 140 | 211 | 124 | 146 | 16 | 65 | 35.3 | 41.5 | 4.66 | 18.6 | 19.7 | 80.3 |
| 1883..... | 362 | 154 | 204 | 136 | 139 | 18 | 69 | 37.5 | 38.4 | 5.07 | 19.0 | 20.7 | 79.3 |
| 1884..... | 351 | 132 | 219 | 113 | 141 | 9 | 78 | 35.0 | 40.2 | 2.57 | 22.2 | 10.3 | 89.3 |
| 1885..... | 391 | 179 | 212 | 154 | 127 | 25 | 85 | 39.4 | 32.5 | 6.40 | 21.7 | 22.7 | 77.3 |
| 1886..... | 406 | 164 | 242 | 149 | 138 | 15 | 104 | 40.4 | 34.0 | 3.70 | 25.6 | 12.6 | 87.4 |
| 1887..... | 406 | 149 | 257 | 127 | 146 | 22 | 111 | 31.3 | 36.0 | 5.40 | 27.3 | 16.6 | 83.4 |
| 1888..... | 458 | 182 | 276 | 156 | 155 | 26 | 121 | 34.1 | 33.9 | 5.68 | 26.4 | 17.7 | 82.3 |
| Totals..... | 3, 818 | 1, 490 | 2, 358 | 1, 311 | 1, 465 | 179 | 893 | ..... | ..... | ..... | ..... | ..... | ..... |
| Means by years..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 34.4 | 38.2 | 4.62 | 22.9 | 16.7 | 83.3 |

TABLE XXXV.—Showing the number of legitimate and illegitimate births, with percentages of births to deaths, of still-births to births, of illegitimacy to births, and of illegitimacy to illegitimacy by color, for Ten Years from 1879 to 1888, inclusive.

| Years. | Number of births. | Color. | | Legitimate. | | Illegitimate. | | Percentage of births to deaths. | Percentage of still births to births. | Percentage of illegitimacy to total births. |
|------------------|-------------------|--------|----------|-------------|----------|---------------|----------|---------------------------------|---------------------------------------|---|
| | | White. | Colored. | White. | Colored. | White. | Colored. | | | |
| 1879..... | 3,816 | 2,117 | 1,699 | 2,068 | 1,400 | 49 | 299 | 88.5 | 10.4 | 12.5 |
| 1880..... | 4,095 | 2,297 | 1,798 | 2,241 | 1,456 | 56 | 342 | 97.3 | 8.8 | 12.0 |
| 1881..... | 3,595 | 2,014 | 1,581 | 1,961 | 1,274 | 53 | 307 | 86.9 | 10.2 | 12.9 |
| 1882..... | 3,391 | 1,800 | 1,591 | 1,747 | 1,277 | 53 | 314 | 74.2 | 10.4 | 12.3 |
| 1883..... | 3,116 | 1,684 | 1,432 | 1,631 | 1,132 | 53 | 300 | 72.7 | 11.6 | 14.1 |
| 1884..... | 3,224 | 1,747 | 1,477 | 1,684 | 1,196 | 63 | 281 | 66.9 | 10.9 | 13.4 |
| 1885..... | 3,334 | 1,861 | 1,473 | 1,805 | 1,136 | 56 | 337 | 66.7 | 11.8 | 15.0 |
| 1886..... | 3,516 | 1,981 | 1,535 | 1,916 | 1,184 | 65 | 351 | 75.2 | 11.5 | 15.2 |
| 1887..... | 3,728 | 2,092 | 1,636 | 2,022 | 1,288 | 70 | 348 | 79.9 | 10.9 | 14.8 |
| 1888..... | 3,670 | 2,035 | 1,635 | 1,964 | 1,262 | 71 | 373 | 72.8 | 12.5 | 16.1 |
| Totals and means | 35,485 | 19,628 | 15,857 | 19,039 | 12,605 | 589 | 3,252 | 77.6 | 10.8 | 13.1 |

| Years. | Percentage of legitimacy to total births, by color. | | Percentage of illegitimacy to total births, by color. | | Percentage of illegitimacy to total illegitimacy, by color. | | Percentage of white illegitimacy to white births, and colored illegitimacy to colored births. | |
|-------------------|---|----------|---|----------|---|----------|---|----------|
| | White. | Colored. | White. | Colored. | White. | Colored. | White. | Colored. |
| 1879..... | 54.2 | 36.7 | 1.31 | 7.83 | 14.0 | 86.0 | 2.32 | 17.60 |
| 1880..... | 54.7 | 35.6 | 1.38 | 8.35 | 14.0 | 86.0 | 2.43 | 19.02 |
| 1881..... | 54.6 | 35.4 | 1.47 | 8.54 | 14.8 | 85.2 | 2.63 | 19.42 |
| 1882..... | 51.5 | 37.7 | 1.00 | 9.26 | 14.4 | 85.6 | 2.09 | 19.73 |
| 1883..... | 52.4 | 36.3 | 1.74 | 9.63 | 15.0 | 85.0 | 3.14 | 20.95 |
| 1884..... | 52.2 | 37.1 | 2.00 | 8.70 | 18.3 | 81.7 | 3.60 | 19.02 |
| 1885..... | 54.1 | 34.7 | 1.68 | 10.18 | 14.3 | 85.7 | 3.00 | 22.88 |
| 1886..... | 54.5 | 33.7 | 1.85 | 9.98 | 15.6 | 84.4 | 3.28 | 22.86 |
| 1887..... | 54.3 | 34.5 | 1.83 | 9.33 | 16.7 | 83.3 | 3.34 | 21.27 |
| 1888..... | 51.5 | 34.4 | 1.93 | 10.16 | 16.0 | 84.0 | 3.49 | 22.81 |
| Totals and means. | 53.6 | 35.5 | 1.66 | 9.16 | 15.3 | 84.7 | 3.00 | 20.5 |

LIST OF REGISTERED PHYSICIANS PRACTICING IN THE DISTRICT OF COLUMBIA.

| Name. | Residence. | Name. | Residence. |
|---------------------------|---------------------|--------------------------|-----------------------------------|
| Acker, George N..... | 1403 N. Y. ave. NW. | Baggett, John B..... | Park and Pine sts., Mt. Pleasant. |
| Adams, Arthur C..... | 808 11th st. NW. | Bailey, Thomas B..... | Children's Hospital. |
| Adams, B. B..... | 927 N. Y. ave. NW. | Baker, Frank..... | 1315 Corcoran st. NW. |
| Adams, Elmon A..... | 428 8th st. SE. | Baker, William W..... | 1540 Caroline st. NW. |
| Adams, J. Lee..... | 600 N. C. ave. SE. | Baldwin, William O..... | 1918 H st. NW. |
| Adams, James Osgood..... | 937 N st. NW. | Ball, Charles A..... | 233 G st. NW. |
| Adams, Samuel S..... | 1525 I st. NW. | Ballock, Edward A..... | 1510 Q st. NW. |
| Addison, Thomas..... | 219 C st. NW. | Barker, Howard H..... | 1116 H st. NW. |
| Ainsworth, F. C..... | 1219 I st. NW. | Barstow, Kate D..... | 820 N. C. ave. SE. |
| Albough, A. Barnes..... | 1320 G st. NW. | Barton, Philip H..... | 25 Madison Place. |
| Alleger, Walter W..... | 245 10th st. NE. | Bates, Newton L..... | 1233 17th st. NW. |
| Allen, Charles..... | 415 7th st. SW. | Baxter, John B. G..... | 824 7th st. NE. |
| Antisell, Thomas..... | 1311 Q st. NW. | Baxter, Jeddiah H..... | 822 Conn. ave. NW. |
| Anderson, J. C..... | 1502 H st. NW. | Bayne, John W..... | 116 2d st. SE. |
| Antisell, Thomas, Jr..... | 1311 Q st. NW. | Beakley, J. Sloat..... | Cor. 2d & N sts. NW. |
| Appleby, James F. R..... | 1430 33d st. NW. | Beall, Benj. M..... | 1736 14th st. NW. |
| Armstrong, William J..... | 1629 Conn. ave. NW. | Beall, W. W..... | 114 6th st. SE. |
| Arthur, George..... | Museum of Hygiene. | Beatty, Hugh W..... | 17 7th st. NE. |
| Artaud, Frank E..... | Soldiers' Home. | Beatty, Louis K..... | 610 E. Capitol st. |
| Atwood, Oliver M..... | 1935 11th st. NW. | Behrend, Adajah..... | 709 H st. NW. |
| Augusta, Alex. T..... | 1319 L st. NW. | Bennett, Harrison M..... | 617 F st. NW. |
| Babbitt, G. E..... | 1253 H st. NE. | Bell, William S..... | Falls Church, Va. |
| Bacon, Charles A..... | 1312 Conn. ave. NW. | | |

LIST OF REGISTERED PHYSICIANS—Continued.

| Name. | Residence. | Name. | Residence. |
|------------------------------|----------------------|-----------------------------|------------------------|
| Benit, William W | 1928 14th st. NW. | Cutts, Harry M | 1226 14th st. NW. |
| Bigelow, Horatio R..... | | Daniel, Z. T | 1457 14th st. NW. |
| Billard, J. T | Lamel, Md. | Darby, J. J | 451 O st. NW. |
| Binns, Douglass | 508 11th st. NW. | Darling, B. F. | 711 7th st. NW. |
| Bird, James C | 1336 G st. NW. | Darling, Henry | Brightwood, D. C. |
| Bishop, Francis B..... | 2210 Pa. ave. NW. | Davis, C. A | 813 14th st. NW. |
| Bland, M. Cora | 1121 10th st. SW. | Deal, H. B | Garfield Hospital. |
| Bliss, D. Willard | 607 13th st. NW. | Dean, J. W | Bennings, D. C. |
| Boarman, Charles V..... | 1104 Md. ave. SW. | De Meza, Manuel M | 927 9th st. NW. |
| Bogan, Martin Van B..... | 606 Mass. ave. NW. | Dexter, J. E | 453 C st. NW. |
| Bogan, Samuel W..... | 421 G st. NW. | Dillenback, W. J | Children's Hospital. |
| Bogue, A. P..... | 319 8th st. NE. | Dixon, J. H | 1727 7th st. NW. |
| Bond, Samuel S..... | 813 1st NW. | Donohoe, Florence..... | 1134 8th st. NW. |
| Borlows, Joseph..... | 921 st. NW. | Dorsey, Lloyd | 913 Mass. ave. NW. |
| Bovey, John W | 1314 I st. NW. | Dovilliers, Leopold V | 1221 13th st. NW. |
| Bowen, Charles H..... | 601 Mass. ave. NW. | Dulaney, J. L | 926 I st. NW. |
| Brackett John E..... | 219 A st. SE. | Dunn, John W | 127 B st. SE. |
| Brandt, William E..... | 1007 B st. NE. | Duvall, W. T. S | 1009 L st. NW. |
| Branson, John H..... | 1106 3d st. NW. | Dyer, John I..... | 1438 Corcoran st. |
| Bray, John | 1222 C st. SW. | Eaton, Parley H | 1318 T st. NW. |
| Brayshaw, J. Lacy..... | Bennings, D. C. | Edes, Robert T | 1216 18th st. NW. |
| Bresford, Charles | 719 8th st. SE. | Edson, Susan A | 1318 I st. NW. |
| Briscoe, Walter C..... | 317 C st. NW. | Eliot, J. Llewellyn | 510 E st. NW. |
| Brownell, Joseph | 1138 Conn. ave. NW. | Ellyson, R. M | Garfield Hospital. |
| Brinson, Charles E..... | 502 10th st. NW. | Elson, James W | 1940 14th st. NW. |
| Bruckheimer, Moses | 748 6th st. NW. | Ensel, J. Edwin | 1521 I st. NW. |
| Brumbaugh, Gaius..... | 918 Mass. ave. NW. | Evans, Warwick..... | 1105 9th st. NW. |
| Bryan, Joseph H..... | 1400 H st. NW. | Fenwick, George P | 504 6th st. SW. |
| Buck, Robert H | 634 Q st. NW. | Fernald, Frank C..... | 1013 14th st. NW. |
| Buckley, John W..... | 805 12th st. NW. | Fisher, G. W..... | Anacostia, D. C. |
| Burghart, Caroline A..... | 457 Mo. ave. | Fisher, R. C..... | 1628 K st. NW. |
| Burnett, Swann M..... | 1734 K st. NW. | Foster, Frank J..... | 941 S st. NW. |
| Burton, George C..... | 810 10th st. NE. | Foster, R. A | 2029 Q st. NW. |
| Busey, Samuel C..... | 1545 I st. NW. | Fowler, W. C | 907 5th st. NW. |
| Bushnell, John H..... | 1212 10th st. NW. | Fox, George L | 1803 H st. NW. |
| Butler, William K..... | 1107 11th st. NW. | Fox, William H..... | 1517 L st. NW. |
| Byrne, Charles C..... | Soldier's Home. | Francis, John R | 2112 Pa. ave. NW. |
| Burns, William F..... | 35 B. st. SE. | Franzoni, Charles W..... | 810 H st. NW. |
| Caldwell, Charles T..... | 1736 Vt. ave. NW. | Freer, James A | 924 N. Y. ave. NW. |
| Callan, Cornelius V. N..... | 1422 F st. NW. | French, Ricardo D..... | 1316 T st. NW. |
| Camron, Malcom | 915 E st. NE. | French, William B..... | 800 A st. SE. |
| Candee, Henry O | 922 F st. NW. | Friedrich, Leon L..... | 323 E. Capitol st. |
| Capehart, B. Ashbourne | 1015 L st. NW. | Fry, Henry D | 1133 14th st. NW. |
| Cardoza, F. J..... | 411 L st. NW. | Gaines, Richard L | 2131 7th st. N. W. |
| Cardoza, Jacob L..... | 411 L st. NW. | Gardner, Frank A | 1016 14th st. NW. |
| Carman, Louis Dal..... | 1351 Q st. NW. | Geddes, William..... | 221 E st. NW. |
| Carpenter, James A. S..... | 439 I st. NW. | Gibbs, B. Frank | 1111 9th st. NW. |
| Carpenter, John E..... | 623 N. C. ave. SE. | Gibbs, Thomas F..... | 935 R. I. ave. |
| Carr, William P..... | 1119 10th st. NW. | Gilbert, Charles B..... | 1011 H st. NW. |
| Carmichael, D. A | 1308 F st. NW. | Gill, William T | 521 12th st. NW. |
| Carraher, J. V | 815 E st. SE. | Gulpin, G. E | Tennallytown, D. C. |
| Carr II James J..... | 1324 13th st. NW. | Gleeson, James K. P | 1316 R st. NW. |
| Carroll, Joseph | 1527 14th st. NW. | Glennan, J. D | 420 Boundary st. |
| Chamberlin, Frank T..... | 457 C st. NW. | Glennan, Patrick | 420 Boundary st. |
| Chappell, John W..... | Tennallytown, D. C. | Gobrecht, William H | 1222 11th st. NW. |
| Chew, Thomas I..... | 226 E. Capitol st. | Godding, W. W | Gov't Hospital for the |
| Childs, William E..... | Mt. Pleasant. | | Insane. |
| Christie, Arthur | Anacostia, D. C. | | |
| Cissel, W. W. L | 1310 Q st. NW. | | |
| Cleary, F. P | 37 10th st. NE. | | |
| Clement, Alfred B. C | Mt. Pleasant. | | |
| Coe, Anton | 1522 Caroline st. | | |
| Collins, C. R | 1335 N st. NW. | | |
| Collins, John F | 623 2d st. NW. | | |
| Colins, T. Shields | 8 G st. NW. | | |
| Connell, Benjamin F..... | 3220 N st. NW. | | |
| Cook, G. Tottenham | 1217 I st. NE. | | |
| Cook, G. Wyeth | 3 Thomas Circle. | | |
| Cook, Samuel LeCount..... | 1526 L st. NW. | | |
| Corbin, Eliakim L..... | 603 La. ave. NW. | | |
| Corey, Waterman F..... | 906 French st. | | |
| Cottrell, Joseph J..... | 725 18th st. NW. | | |
| Cones, Elliot | 1726 N st. NW. | | |
| Coumbe, John T..... | 1304 9th st. NW. | | |
| Crook, Harrison | 508 1/2 13th st. NW. | | |
| Crouse, John L | 1100 10th st. NW. | | |
| Crusor, Collins B | 2813 Dumbarton ave. | | |
| | NW. | | |
| Curtis, J. W | 1711 8th st. NW. | | |
| Custis, G. W | 110 E. Capitol st. | | |
| Custis, J. B. Gregg..... | 110 E. Capitol st. | | |
| Cuthbert, M. F..... | 1462 R. I. ave. | | |
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LIST OF REGISTERED PHYSICIANS—Continued.

| Name. | Residence. | Name. | Residence. |
|-----------------------------|-------------------------|--|---------------------------------------|
| Hart, Mary Ester | 1109 G st. NW. | Latimer, George | 1326 N. Y. ave. NW. |
| Hartigan, James F. | 608 14th st. NW. | Lawver, Winfield P. | 1912 I st. NW. |
| Hartwell, J. B. | 1831 14th st. NW. | Leach, Hamilton E. | 400 7th st. NW. |
| Harvey, Allen L. | 933 K st. NW. | Leahy, D. C. | 907 N. Y. ave. NW. |
| Harvey, H. M. | 610 B st. NE. | Leary, M. A. | 1637 10th st. NW. |
| Harvey, P. F. | 1814 G st. NW. | Lecoute, John | 907 T st. NW. |
| Havener, G. C. | Anacostia, D. C. | Lee, George | 1233 Vt. ave. NW. |
| Hawkes, William H. | 1400 K st. NW. | Lee, William | 2111 Pa. ave. NW. |
| Hazen, David H. | 407 6th st. SW. | Leech, D. Olin | 720 H st. NE. |
| Hazen, William P. C. | 511 E. Cap. st. | Leech, George A. | 2217 13th st. NW. |
| Henderson, George | 817 T st. NW. | Lewis, C. O. | Bladensburg, Md. |
| Herbert, J. W. | Marine Barracks. | Lincoln, N. S. | 1514 H st. NW. |
| Herbert, J. Wells | 205 H st. NW. | Lindsly, Harvey | 824 Conn. ave. NW. |
| Heron, George H. | 1214 6th st. NW. | Linn, Samuel F. | 3143 Dumbarton st. |
| Heron, William H. | 1214 6th st. NW. | Little, J. W. | 414 C st. SE. |
| Hickling, D. P. | 221 3d st. NW. | Little, J. J. | 1511 R st. NW. |
| Hill, Richard S. | 213 1/2 E st. NW. | Livingston, L. W. | 1914 11th st. NW. |
| Hill, James L. | 1016 14th st. NW. | Long, William | 1018 17th st. NW. |
| Histop, Margaret | 313 M st. NW. | Lorini, R. phael. | 14 8 20th st. NW. |
| Hochling, Adolph | 1355 Corcoran st. NW. | Lovejoy, J. W. H. | 900 12th st. NW. |
| Hofner, Andrew F. | 801 O st. NW. | Luce, Charles B. | 206 B st. SE. |
| Hoffman, W. J. | 222 E st. NW. | Luckett, William F. | 1351 Corcoran st. NW. |
| Hollen, Raymond T. | 802 6th st. SW. | Luscomb, Arthur | 916 15th st. NW. |
| Holten, Adelaide T. | 519 B st. NW. | Luttrell, S. S. | 600 6th st. NW. |
| Hood, Thomas B. | 1009 O st. NW. | McArdle, Thomas E. | 1118 N. Y. ave. NW. |
| Holmes, Charles | 1737 11th st. NW. | McBlair, J. H. | 2029 I st. N. W. |
| Hoover, Franklin P. | 1615 P st. NW. | McIlhenny, J. S. | 936 N. Y. ave. NW. |
| Hore, Cassius W. | 945 C st. SW. | McKim, S. A. H. | 25 5th st. SE. |
| Horigan, Joseph A. | Columbia Hospital. | McKone, James J. | 521 12th st. NW. |
| Hosford, Elihu | 1101 G st. NW. | McLain, J. S. | 1924 N st. NW. |
| Houston, Samuel | 1417 Columbia st. NW. | McLaughlin, Thomas N. | 825 14th st. NW. |
| Howard, Horatio N. | 918 Mass. ave. NW. | McLean, John W. | 1306 R sts. N. W. |
| Howard, James H. | 174 H st. NW. | McLeod, Alfred | Corner Frederick and
Prospect sts. |
| Howard, John C. | 1228 H st. NW. | McPherson, Dorsey M. | 1822 15th st. NW. |
| Howard, Joseph T. | 1126 9th st. NW. | McVary, Stephen A. | 616 2d st. SW. |
| Howell, Arnold G. | 244 3d st. SW. | McWilliams, A. | 461 Mo. ave. NW. |
| Hughes, William D. | 807 H st. NE. | Mackall, James McV. | 1015 20th st. NW. |
| Huntoon, A. J. | 21 H st. NW. | Mackall, Louis | 3040 Dumbarton st. |
| Hussey, D. J. | 1208 H st. NW. | Maddox, William J. | 403 H st. NE. |
| Hull, E. S. | 9th and R sts. NW. | Madison, Benjamin F. | 417 B st. SE. |
| Hyatt, Frank | 900 K st. NW. | Magruder, George L. | 815 Vt. ave. NW. |
| Ingram, Thomas D. | 1305 H st. NW. | Mallam, Charles E. | 1231 N. Y. ave. NW. |
| Irwin, Fairfax | 1727 19th st. NW. | Mallan, Thomas F. | 216 2d st. SE. |
| Jameson, A. B. | Park st., Mt. Pleasant. | Mann, Henry L. | 334 Indiana ave. NW. |
| Jamney, Edgar | 12 Iowa Circle. | Mann, W. A. | 1003 K st. NW. |
| Jenkins, F. T. | 2115 Pa. ave. NW. | Manning, William P. | 2030 14th st. NW. |
| Jenkins, Ralph | Homeopathic Hospital. | Markriter, John J. | 705 6th st. NW. |
| Johnson, Albert E. | 213 1st st. SE. | Marmion, William V. | 1108 F st. NW. |
| Johnson, C. C. | 2306 6th NW. | Marr, Samuel S. | 1415 10th st. NW. |
| Johnson, Henry L. E. | 1405 L st. NW. | Marshall, Collins | 1010 11th st. NW. |
| Johnson, J. B. | 922 N. Y. ave. NW. | Marsteller, A. A. | 301 C st. NW. |
| Johnson, Joseph Tabor .. | 926 17th st. NW. | Martin, Thomas | 310 N. Y. ave. NW. |
| Johnson, William M. | 1611 Pa. ave. NW. | Marvel, Philip | 1202 K st. NW. |
| Johnston, G. F. | 420 6th st. NW. | Marx, George | 924 Mass. ave. NW. |
| Johnston, G. W. | 1406 H st. NW. | Massey, Thomas E. | 2135 L st. NW. |
| Johnston, R. L. | 112 C st. NE. | Mauss, Richard G. | 1701 6th st. NW. |
| Johnston, W. W. | 1603 K st. NW. | Maxwell, Charles D. | 1716 I st. NW. |
| Jolley, Bushrod B. | 2006 12th st. NW. | May, J. Frederick | 2022 G st. NW. |
| Jones, W. H. | 1916 11th st. NW. | Mayfield, Clifton | 1333 20th st. NW. |
| Joyce, J. W. | 601 E st. NW. | Marr, Samuel S. | 1415 10th st. NW. |
| Juliin, M. L. | 200 1/2 7th st. SW. | Mason, William C. | 801 L st. NW. |
| Keech, Thomas A. R. | 424 E. Cap. st. | Mead, Theodore | 902 22d st. NW. |
| Keenan, John F. | 923 Va. ave. SW. | Melvin, Mc lary B. | 721 4 1/2 st. SW. |
| Kelly, Daniel J. | 1635 19th st. NW. | Meriam, Ephraim C. | 622 N. J. ave. NW. |
| Kerr, James | 1314 19th st. NW. | Miller, Allen E. | 902 3d st. SW. |
| Ketcham, Orlando C. | 37 C st. NE. | Miller, Thomas | 1 16 7th st. NW. |
| Kidder, Jerome H. | 1816 N st. NW. | Miller, William L. | 410 K st. NW. |
| King, A. F. A. | 726 13th st. NW. | Moffatt, Samuel S. | 721 11th st. NW. |
| King, Ernest F. | 923 M st. NW. | Montgomery, F. Living-
ston, jr. | 2d and N sts. NW. |
| King, William R. | 812 11th st. NW. | Moore, Joseph B. | 57 K st. NE. |
| King, George S. | 707 M st. NW. | Moran, John F. | 3009 M st. NW. |
| Kingsman, R. T. | 713 1/2 E. Cap. st. | Morgan, Edwin Lee | 1909 Pa. ave. NW. |
| Kleinschmidt, C. H. A. | 3113 N st. NW. | Morgan, Ethelbert C. | 918 E st. NW. |
| Kloeber, John S. | 723 12th st. NW. | Morgan, James E. | 905 E st. NW. |
| Kolopinski, Louis | 631 I st. NW. | Morgan, J. Dudley | 907 E st. NW. |
| Kooner, Charles K. | Wash. Asy. Hospital. | Morrison, Mary E. | 1809 13th st. NW. |
| Kramer, Thomas B. | 634 A st. SE. | Morris, G. G. | 708 13th st. NW. |
| LaFetra, Thomas B. | 606 9th st. NW. | Morsell, W. F. | 1610 13th st. NW. |
| Lamb, D. S. | 800 10th st. NW. | Mubleman, Samuel A. | 808 N. J. ave. NW. |
| Lamb, John Melvin | 706 B st. SW. | Muncaster, Magruder | 1405 N. Y. ave. NW. |
| Landers, Thomas | 1022 8th st. NW. | | |
| Lang, Charles J. | 736 N st. NW. | | |

814 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

LIST OF REGISTERED PHYSICIANS—Continued.

| Name. | Residence. | Name. | Residence. |
|--|--|---------------------------------------|--|
| Muncaster, Otho M | 1405 N. Y. ave. NW. | Sexton, Edward J | 201 2d st. SE. |
| Mundell, John H | 1022 18th st. NW. | Sellhausen, Ernst A | 636 G st. NW. |
| Munson, Reginald | 1140 Conn. ave. NW. | Sessford, Joseph S. F | 2016 F st. NW. |
| Murphy, Patrick J | Columbia Hospital. | Shadd, F. J. | Freedmen's Hospital. |
| Naylor, William L | 456 M st. NW. | Shearer, J. G. | 1216 H st. NW. |
| Neall, John H | 1603 7th st. NW. | Shekell, Abraham B | 1529 32d st. NW. |
| Neale, Richard A | 1808 Pa. ave. N. W. | Sherley, A. B. | 1336 Q st. NW. |
| Neeley, John R | 205 1st st. SE. | Shoulters, George | 1444 R. I. ave. NW. |
| Newman, Henry M | 2401 Pa. ave. NW. | Shute, D. Kerfoot | 908 K st. NW. |
| Newton, Lewis E | 413 L st. NW. | Smith, Thomas | 1133 12th st. NW. |
| Norman, Henderson S | 456 C st. NW. | Smith, William T | Freedmen's Hospital. |
| Norton, Charles A | 815 H st. NE. | Snowden, Arthur | 1273 N. H. ave. NW. |
| Norton, Thomas M | 2013 H st. NW. | Snider, Arthur A | 1303 31st st. NW. |
| Norwood, John | 1725 14th st. NW. | Schon, Fred | Emergency Hospital. |
| Nourse, Henry D | 283 Q st. NW. | Sommerschmidt, Chas. W | 1307 H st. NW. |
| Ober, George C | 210 B st. SE. | Sotheron, James T | 1919 I st. NW. |
| Offut, Baruch | 1023 E. Cap. st. | Sowers, Z. T. | 1320 N. Y. ave. NW. |
| Ogden, David M | 2103 Q st. NW. | Spickman, Mary D | 1634 16th st. NW. |
| Olmstead, William A | 1916 15th st. NW. | Spigg, William | |
| Okie, William T | 1311 F st. NW. | Stabler, Augustus | 1523 5th st. NW. |
| O'Reilly, R. M. | 1911 1st. NW. | Stafford, John J | 467 F st. NW. |
| Osmun, Charles J | 917 12th st. NW. | Stack, M. J. | Government Hospital
for the Insane. |
| Page, William R | 807 12th st. NW. | Stanford, Flora H | 411 H st. NW. |
| Palmer, Gideon S | 1113 Mass. ave. NW. | Stanton, J. O. | 1344 G st. NW. |
| Palmer, William G | 909 H st. NW. | Stearns, S. S. | 1425 R. I. ave. NW. |
| Parcel, John C | 38 DeFrees st. | Stephenson, Joseph G | 1007 F st. NW. |
| Parsons, John | 2223 13th st. NW. | Stewart, George C | 1321 F st. NW. |
| Parsons, Mary A | 1216 H st. NW. | Stockstill, David C | 808 1st NW. |
| Patten, Joseph L | 2100 H st. NW. | Stone, Chas. G. | Brightwood, D. C. |
| Patterson, A. C. | Government Hospital
for the Insane. | Stone, F. Ritchie | 1640 R. I. ave. NW. |
| Patterson, De Witt C | 919 1st. NW. (coroner.) | Stoner, George W | 1115 17th st. SE. |
| Penrod, Hiram J | Mt. Pleasant. | Stratton, J. T. | 517 7th st. SE. |
| Perkins, James T | 228 h st. NE. | Stricker, M. B. | 912 E. Capitol st. |
| Perry, George N | 1524 14th st. NW. | Street, Daniel B | 730 9th st. NE. |
| Peter, Armistead | 3044 O st. NW. | Suddath, James L | 821 N. Capitol st. |
| Peterson, Charles V | 435 4th st. NW. | Sumby, Sidney A | 315 F st. NW. |
| Pile, Mayne M | 906 L st. NW. | Sumner, Jeannette J | 1306 F st. NW. |
| Pool, Ben. J (med. san.
inspector.) | 945 R. I. ave. NW. | Suter, Henderson | 1207 31st st. NW. |
| Pool, Ben. G | | Sweetman, J. T. | 2112 H st. NW. |
| Pope, Gustavus W | 1109 14th st. N. W. | Sweetman, J. T., jr. | Columbia Hospital. |
| Porter, Henry C | 3035 O st. NW. | Swormstedt, Lyman B | 1455 14th st. NW. |
| Postley, Charles E | 1429 11th st. NW. | Talbott, H. T. | 101 2d st. NW. |
| Poulton, William E | 426 4½ st. S. W. | Tanel, Arthur W | 2116 Pa. ave. NW. |
| Pratt, Daniel | 95 Myrtle st. | Tarkington, Joseph A | 217 D st. NW. |
| Premiss, Daniel W | 1101 14th st. NW. | Taylor, Leroy M | 701 M st. NW. |
| Purvis, Charles B | 1118 13th st. NW. | Taylor, T. Archibald | 111 C st. NE. |
| Purmen, J. J. | 1111 17th st. NW. | Taylor, William H | 619 M st. NW. |
| Pyle, Richard A | Anacostia, D. C. | Taylor, Thomas | 238 Mass. ave. |
| Radcliffe, Samuel J | 1523 K st. NW. | Thompson, J. Ford | 804 17th st. NW. |
| Rautenberg, Charles | 215 3d st. N. W. | Thompson, Millard F | 478 Md. ave. S. W. |
| Rautenberg, L. E. | 510 5th st. NW. | Thomsen, William R | 5 Langton Terrace. |
| Ravenburgh, R | 1418 Pierce st. NW. | Toner, Joseph M | 615 La. ave. NW. |
| Reed, Thomas J | 1437 S st. N. W. | Torrey, Turner | Anacostia, D. C. |
| Reid, Lewis H | 608 12th st. N. W. | Townshend, Smith
(health officer). | 221 4½ st. NW. |
| Reilly, James R | 221 4½ st. SW. | Trott, Thomas H | 232 N. J. ave. SE. |
| Reuss, Peter J. | 307 G st. NW. | Turner, T. J. | 1707 N. Y. ave. NW. |
| Reyburn, Robert | 714 13th st. N. W. | Tyler, Abbie C. | 401 3d st. NW. |
| Reyburn, Robert, jr. | 714 13th st. N. W. | Tylan, Lachlan | 904 14th st. NW. |
| Richardson, Charles W | 1106 L st. NW. | Tyler, W. Bowie | 2918 P st. NW. |
| Rings, Daniel H | 1012 Mass. ave. | Trist, H. B. | 809 H st. NW. |
| Kitchen, Louis W | 3259 N st. NW. | Trudgian, Josiah B | 109 Mass. ave. NW. |
| Rixey, P. M. | 1707 N. Y. ave. NW. | Upham, William | 601 P st. NW. |
| Robbins, Henry A | 1214 15th st. NW. | Urie, William A | 1006 1st. NW. |
| Roberts, Grace | 420 C st. SE. | Van Dyck, J. M. | Ebbitt House. |
| Roberts, Palmer W | 1106 B st. NE. | Van Vleet, F. C. | 819 15th st. NW. |
| Roberts, Robert R | 429 3d st. NE. | Vowley, D. W. | 1031 8th st. NW. |
| Roberts, William E | 715 G st. SE. | Verdi, Tullio S | 815 14th st. NW. |
| Robinson, Thomas | 1318 T st. NW. | Wagner, G. H. | 417 N. J. ave. NW. |
| Rogers, Alphonso P | 737 4th st. SE. | Waggaman, Samuel | 1515 30th st. NW. |
| Roomie, Edward | 1317 Corcoran st. NW. | Walker, Mary | |
| Rowland, John A | 640 6th st. NW. | Wallace, M. F. | |
| Rosse, Irving C | 1732 H st. NW. | Wales, Philip G | 813 Vt. ave. NW. |
| Roy, Philip S | 1005 9th st. NW. | Wales, Philip S | 813 Vt. ave. NW. |
| Saffold, James P | 1601 8th st. NW. | Walsh, Ralph | 1328 N. Y. ave. NW. |
| St. Clair, F. O. | 1128 R. I. ave. NW. | Walter, John | 1010 F st. NW. |
| Samson, George C | 2413 Pa. ave. NW. | Ward, William W | 2025 H st. NW. |
| Schaeffer, Edward M | 904 14th st. N. W. | Waring, J. H. N | 1932 11th st. NW. |
| Scholl, Joseph | 615 D st. N. W. | Warman, W. H. H | 939 T st. NW. |
| Schott, G. I. Van | 206 E Cap. st. | Watts, S. Roger | 1808 M st. NW. |
| Scott, D. W. | 1720 5th st. NW. | Wells, C. A. | Hyattsville, Md. |
| Secfritz, Paul | 213 3d st. NW. | Weller, J. R. | 1912 11th st. NW. |

LIST OF REGISTERED PHYSICIANS—Continued.

| Name. | Residence. | Name. | Residence. |
|---------------------------|--|-------------------------|--------------------------------------|
| West, George W. | 1102 14th st. NW. | Wirt, William D. | 440 H st. NW. |
| Weston, Edmund | 1009 13th st. NW. | Wolhaupter, David P. .. | 801 H st. NW. |
| Werner, Philip P. | 608 Mass. ave. NW. | Wood, P. Bryson | 1107 18th st. NW. |
| White, C. H. | Museum of Hygiene. | Woodman, Frank J. | 611 E. Capitol st. |
| White, James. | Brightwood, D. C. | Womersley, E. E. | 1809 K st. NW. |
| Whiting, C. F. | 1215 W st. NW. | Wooley, George W. | 942 F st. SW. |
| Wilder, J. R. | 1912 11th st. NW. | Wooster, Mary L. | 2020 14th st. NW. |
| Williams, Green D. | 1463 Pierce Place NW. | Wurdelman, A. V. | Washington Eye and
Ear Infirmary. |
| Winslow, Caroline B. | 1 Grant Place NW. | | |
| Winter, Eugene C. C. | 601 H st. SW. | Yarnall, J. H. | 3120 N and 3028 P sts.
NW. |
| Winter, John T. | 1528 9th st. NW. | Yarrow, H. C. | 813 17th st. NW. |
| Wise, Thomas W. | 606 M st. NW. | Young, James T. | 1336 N. Y. ave. NW. |
| Witmer, A. H. | Government Hospital
for the Insane. | Young, Parke G. | 1317 8th st. NW. |

LIST OF REGISTERED UNDERTAKERS.

| | | | |
|---------------------------|---------------------------------|---------------------------|-------------------------------------|
| Anderson, J. H. | Hillsdale, D. C. | Kelly, William B. | 707 7th st. SW. |
| Parker, R. W. | 612 11th st. NW. | Lee, John W. | 322 Pa. ave. NW. |
| Birch, Jos. F. | 1043 M st. NW. | Lee, Joseph C. | 1808 14th st. NW. |
| Boteler, E. M. | 735 8th st. SE. | Lewis, William | 2247 Boundary st. NW. |
| Burgdorf, August. | 312 Pa. ave. NW. | Mitchell, J. M. | 944 11th st. SE. |
| Bettors, G. C. H. | 1448 S. C. ave. SE. | McHenry, J. P. | Mt. Olivet Cemetery. |
| Berry, D. A. | 321 V. ave. SW. | McKerichar, Alexander. | Glenwood Cemetery. |
| Bond, Thomas | Uniontown, D. C. | Money, M. L. | Rock Creek Cemetery. |
| Brown, W. P., & Son. | Cor. 9th and E sts. SE. | Minor, David | 729 12th st. SE. |
| Burdette, William F. | Presbyterian Ceme-
tery. | Murray & Nalley. | 1248 11th st. SE. |
| Bellew, Mrs. M. A. | 633 N. J. ave. NW. | Parker, A. | 1754 L st. NW. |
| Cann, R. S. | 1011 7th st. NW. | Speare, W. R. | 940 F st. NW. |
| Campbell, George. | 500 K st. SW. | Spindler, Fred. | 1233 7th st. NW. |
| Clements, J. T. | 1235 32d st. NW. | Spindler, William F. | 1029 7th st. NW. |
| Cross, J. B. | Congressional Ceme-
tery. | Sigourney, W. S. | 2824 Pa. ave. NW. |
| Cohen, Moses | 8th bet. H and I sts. NW | Shelton, J. H. | Methodist Cemetery. |
| Canter, C. E. | 1818 L st. NW. | Smith, N. | 1723 Cedar st. NW. |
| Day, Addison | 301 4½ st. SW. | Sims, John | M st., Georgetown. |
| Davis, J. H. | 1626 11th st. NW. | Speaks, Henry. | Payne's Cemetery. |
| Dabney, J. H. | 441 L st. NW. | Spindler, Fred. & Son. .. | 1233 7th st. NW. |
| Duvall, L. E. | 731 4½ st. SW. | Spindler, Fred. J. | 1707 7th st. NW. |
| Dorsey, Robert | Tenn. City town, D. C. | Sims, Arthur | 341 H st. SW. |
| Friess, Frederick W. | 1048 6th st. NW. | Tiless, Moses | Cor. 12th st. and R. I.
ave. NW. |
| Geier, Frank, sons. | 1113 7th st. NW. | Travers, D. T. | 1110 3d st. SW. |
| Gasch, Francis | Bladensburg, Md. | Talbert, R. T. | 34 H st. NE. |
| Gafford, W. H. | Graceland Cemetery. | Wright, J. R. | 1137 10th st. NW. |
| Gawler, Joseph | 1726 Pa. ave. NW. | Wise, G. W. | 2900 M st. NW. |
| Harvey, R. F. | 912 Pa. ave. NW. | Williams, Lemuel. | 1705 Pa. ave. NW. |
| Herbert, J. F. | Harmony Cemetery. | West, John | 1113 Q st. NW. |
| Henry, George B. | 1003 3d st. SW. | Wiltberger, John B. | Rock Creek Cemetery. |
| James, John S. | Anacostia, D. C. | Walker, W. H. | St. Albans' Cemetery. |
| Kickhany, William | 52 2d st., Georgetown,
D. C. | Wood, Martin V. | 702 F st. SW. |
| | | Young, R. D. | 440 3d st. SW. |
| | | Zurhorst, G. P. | 320 Pa. ave. SE. |

LIST OF REGISTERED PLUMBERS.

| | | | |
|---|----------------------|---|--|
| Aitchison, Julius I. | 1316 14th st. NW. | Brown, Martin V. | 8th bet E and G sts.
SE, rear Odd Fel-
lows' Hall. |
| Anadale, John A. | 1236 9th st. NW. | | |
| Anderson, James F. | 304 B st. SE. | Brown, Thomas | 1316 Mass. ave. NW. |
| Anderson, William L. | 400 East Capitol st. | Bowden, Charles W. | 606 11th st. NW. |
| Artz, Samuel | 3007 M st. NW. | Bounds, Oliver. | B. & O. Depot. |
| Bond, R. | 117 Pa. ave. NW. | Bailey, O. | 800 4½ st. SW. |
| Barker, J. W. | 401 7th st. SW. | Conner, James A. | 702 O st. NW. |
| Bride, C. T. | 306 Pa. ave. SE. | Carpenter, Benjamin W. .. | 116 10th st. SE. |
| Brien, James F. | 1542 9th st. NW. | Cantwell, John | 423 2d st. SW. |
| Brooks, R. C. | 622 D st. NW. | Campbell, Robert G. | 517 10th st. NW. |
| Brooks, E. F. | 531 15th st. NW. | Caverly, Edward | 1425 N. Y. ave. NW. |
| Barnard, Edward | 926 19th st. NW. | Curtin, Andrew G. | 412 10th st. NW. |
| Beuter, Max A. | 606 D st. NW. | Campbell, William P. | 425 4½ st. SW. |
| Barby, William W. | 807 4th st. NW. | Cole, Marcellus | 403 10th st. SE. |
| Berry, William H., and
James E. Suit. | 534 8th st. SE. | Carmody, John | 1241 6th st. SW. |
| Butler, John A. | 931 5th st. NW. | Cruit, Henry K., and
Robert S. Scott. | 817 9th st. NW. |
| Bussey, Walter | 1313 5th st. NW. | Clark, J. B. | 1721 6th st. NW. |
| Brill & Hayden. | 308 Pa. ave. NW. | Daily, John. | 638 G st. NW. |
| Berry, W. C. | 503 9th st. NW. | | |

LIST OF REGISTERED PLUMBERS—Continued.

| Name. | Residence. | Name. | Residence. |
|---|---|--|---|
| Dougherty, William W .. | 488 La. ave. N.W. | McCarthy, Michael A ... | 626 N. Capitol st. |
| Dent, Augustus S | 854 19th st. N.W. | Mathews, Charles | 344 Maine ave. |
| Donaldson, Thomas S .. | 1424 E st. N.W. | Murphy, Morris | 115 I st. N.W. |
| Daly, Peter | 315 12th st. N.W. | McNier, George W | 1101 E st. N.W. |
| Daniels, J. W., & Bro.... | 1122 F st. N.W. | Merrillat, Oliver F..... | 744 4th st. N.W. |
| D laney, Peter J. | 3203 Pa. ave. N.W. | Mills, Romulo | 1207 11th st. SE. |
| Devereux, Frank N., and
John Gaghan. | 703 13th st. N.W. | McAvoy, G. F | 706 14th st. N.W. |
| Duffy, William, and Jere-
miah O'Day (Duffy &
O'Day). | 312 3d st. N.W. | Maisok, G. H | 1019 H st. SE. |
| Dessey, C. E | 2120 K st. N.W. | Noonan, Timothy V | 1121 Vt. ave. N.W. |
| Eckloff, Christian T..... | 812 N. Capitol st. | Nolan, James | 721 14th st. N.W. |
| Edwards, J. J | 1322 12th st. N.W. | Noonan, John | 2113 H. st. N.W. |
| Enright, Michael A | 228 O st. N.W. | Niland, Patrick | 1150 20th st. N.W. |
| Edwards, George T..... | 8 8 D st. N.W. | O'Hagan, James | 1917 Pa. ave. N.W. |
| Etter, Walter | 1229 7th st. N.W. | O'Donnoghue, Joseph.... | 3055 M st. N.W. |
| Fitzhugh, J. B. | 306 East Capitol st. | O'Hare, Edward | 717 18th st. |
| Fitzgerald, Robert | 22 G st. N.W. | O'Brien, M. J | 1008 1st st. N.W. |
| Flugles, P. A | 317 4½ st. N.W. | Power, John A., & Co ... | 417 10th st. N.W. |
| Farrell, John | 604½ 10th st. N.W. | Pettit & Driggs | 14th and B sts. N.W. |
| Gorman, Edward | 124 B st. NE. | Pierce, William S., and
William H. Barry. | 936 Pa. ave. N.W. |
| Goodall, George W | 601 C st. N.W. | Preddy, C | 1108 E st. N.W. |
| Garrett, Charles S | 485 G st. SW. | Paul, G. W. | 12 9 32d st. N.W. |
| Gibson, Thomas A | 1505 Pierce Place. | Quinter, Joseph R., jr. ... | 1323 Vt. ave. N.W. |
| Gallagher, Bernard | 900 9th st. N.W. | Rapley, William H | 1402 Pa. ave. N.W. |
| Green, George A | 503 C st. N.W. | Ridgway, Edward A | 1311 F st. N.W. |
| Greenland, R. C | 1331 14th st. N.W. | Rothwell, William | 119 10th st. NE. |
| Moran, James F | 416 4½ st. SW. | Ragan, James | 1014 Pa. ave. N.W. |
| Hay, Bushrod C | 24 E st. N.W. | Regan, Cornelius | 637 H st. N.W. |
| Hannan, Daniel | 517 F st. N.W. | Robinson, Mansard | 238 R st. N.W. |
| Hill, Richard A., and C.
Rozier. | 1741 11th st. N.W. | Shedd, Samuel S | 422 9th st. N.W. |
| Harrison, James T. | 603 Pa. ave. SE. | Schaffer, George F | 635 D st. N.W. |
| Haywood & Hutchinson | 424 9th st. N.W. | Spearing, Samuel J | 450 Pa. ave. N.W. |
| Hilleary, Theodore | 1218 E st. N.W. | Smithson, Charles F ... | 478 G st. SW. |
| Hannan, Edward J | 517 11th st. N.W. | Suman, James L | 623 G st. N.W. |
| Harrover, James R | 2102 14th st. N.W. | Sherwood, Samuel H | 1121 7th st. N.W. |
| Hoffman, Frank F | 1209 4th st. N.W. | Sebastian, John W | 821 M st. N.W. |
| Humphrey, Thomas | 1838 14th st. N.W. | Shepherd, Aaron | 2100 14th st. N.W. |
| Hurley, John W | 908 E st. N.W. | Sullivan, Daniel J | 402 13th st. N.W. |
| Hutchinson, William T. | 510 7th st. SE. | Sanderson, John W | 2 F st. N.W. |
| Haislip, John W | 908 9th st. N.W. | Schell, Seth | 1341 29th st. N.W. |
| Hutchins & Betz | 1208 E st. N.W. | Shea, Daniel E | 901 5th st. N.W. |
| Jenks, W. S. | 717 7th st. N.W. | Stewart, Samuel H | 440 6½ st. SW. |
| King, Frank A | 1319 7th st. N.W. | Sullivan, Daniel F | 345 H st. SW. |
| Keppel, John A | 17 H st. NE. | Sullivan, W. F | 1120 18th st. N.W. |
| Kerr, Thomas W | 917 F st. N.W. | Soper, B. A | 727 N. Capitol st. |
| Krause, John | 1910 K st. N.W. | Sullivan, J. J | 1332 13th st. N.W. |
| Keese, W. F | 6th and Va. ave. N.W. | Talry, James | 1017 I st. N.W. |
| Knorrieine, George | 619 C st. N.W. and 94
Northern Market. | Tennant, Alexander | 1228 32d st. N.W. |
| Knight, W. P | 508 H st. N.W. | Thorn, Charles G | 1223 F st. N.W. |
| Kane & Roach | 1320 Pa. ave. N.W. | Thorn, Henry C | 725 13th st. N.W. |
| Lockhead, James | 1404 Pa. ave. N.W. | Thomas, William A | 1337 9th st. N.W. |
| Lyon, John | 1308 D st. N.W. | Tolson, William | 516 7th st. SE. |
| Lee, William | 34 3d st. SE. | Tilp, Frederick | 1617 N. J. ave. N.W. |
| Lockhead, Charles | Sherman ave. N.W. | Umhan, C. F | 1714 7th st. N.W. |
| Lansdale, E. G | 1322 Corcoran st. N.W. | Venable & Sullivan | 822 20th st. N.W. |
| McAvoy, John M | 1208 24th st. N.W. | Venable, J. A | 1332 13th st. N.W. |
| McBee, Randolph | 1227 7th st. N.W. | Waters, Sandiford M | 1213 32d st. N.W. |
| Moran, John | 2126 Pa. ave. N.W. | Ward, William N | 1304 H st. N.W. |
| McMahon, John J | 901 26th st. N.W. | Williamson, D. S | 605 N. Y. ave. N.W. |
| Mitchell, John | 820 14th st. N.W. | Winter, H. E | 832 Del. ave. NE. |
| Miller, Thomas W | 932 Pa. ave. N.W. | Ward & Cunningham .. | 414 11th st. N.W. |
| Marsden, Frank L | 436 7th st. SW. | Wall, William | 916 26th st. N.W. |
| | | Whalen, William | Montgomery Hotel.
32d st., bet. O and P
sts. N.W. |
| | | Walker, Christopher C .. | 3004 K st. N.W. |

ADDITIONS TO THE LIBRARY.

The following named works, reports, and papers have been added to our library during the year:

- United States Commission of Fish and Fisheries. Commissioner's Report, 1885.
- Forty-fifth report to the Legislature of Massachusetts, of Births, Marriages, and Deaths, etc., for the year 1886.
- Annual Report of the Department of Health and Vital Statistics of the City of Buffalo, N. Y., for the year ending December 31, 1886.
- Report of the Freedmen's Hospital to the Secretary of the Interior, 1887.
- Seventh Annual Report of the State Board of Health of the State of New York, 1886.
- Eighteenth Annual Report of the State Board of Health of Massachusetts, 1886.
- Sixteenth Annual Report of the Local Government Board, London, England, 1886-'87.
- Annual Report of the Supervising Surgeon-General of the Marine Hospital Service of the United States, 1887.
- Report on the sanitary state of the city of Montreal, for the year 1886, by Dr. Louis Laberge, medical health officer.
- Report of the Surgeon-General of the Army, for the year ending June 30, 1887.
- Report on the health of Bolton during the year 1886, etc. By Edward Sergeant, medical officer, etc.
- Beretning om Folkemængden og Sundhedstilstanden i Christiania i Aaret 1886.
- The Fishery Industries of the United States. Section 2. Geographical Review.
- Annuaire Statistique de la ville de Paris, 6^e Année, 1885.
- Report of the Sanitary Council and Physicians of the City of Prague, 1884-'85.
- Annual Report of J. L. Meares, M. D., health officer, San Francisco, Cal., 1887.
- Laws of Delaware for the Preservation of the Public Health and Registration of Vital Statistics.
- Report of the Health Officer of Frederick County, Md., 1887.
- Annual Report of the Chief Engineer of the Fire Department of the District of Columbia, 1887.
- First Annual Report of the Washington Hospital for Foundlings of the District of Columbia, 1887.
- Report of the Commissioner of Education, 1885-'86.
- Fifteenth Annual Report of the Health Department of Cleveland, Ohio, December 31, 1887.
- Ninth Annual Report of the Board of Health of Memphis, 1887.
- Eighth Annual Report of the State Board of Health of New York. Introductory.
- Annual Report of the Medical Officer of Health, River Tyne Port, Sanitary Authority, 1887.
- Annual Report of the Board of Health of Cambridge, Mass., 1887.
- Sixteenth Annual Report of the Board of Health of the City of Boston, Mass., 1887.
- Annual Report of the Board of Health of Wilmington, Del., 1887.
- Thirteenth Annual Report of the Medical Officer of Health of Coventry, England, 1887.
- Annual Report of the Health Department of the City of Baltimore, Md., 1887.
- Report of the Board of Health of the City of Reading, 1887.
- Ninth Annual Report of the Board of Health of the City of Atlanta, Ga., 1887.
- Annual Report of the City and County Hospital of San Francisco for the fiscal year ending June 30, 1887.
- Eighth Annual Report of the Board of Health of the City of Haverhill, Mass.
- Annual Report of the Board of Health of Dallas County, Ala., 1887.
- Biennial Report of the Board of Health of the General Assembly of the State of Louisiana, 1886-'87.
- Fifth Annual Report of the Superintendent of Health of the City of Providence, R. I., for the year ending December 31, 1887.
- Annual Report of the Health Department of the City of Richmond, Va., for the year 1887.
- Annual Report of the Commissioners of the District of Columbia, 1887.
- Rapport annuel du Bureau d'hygiène et de statistique de la ville de Reims, 1886.
- Report of proceedings of the Illinois State Board of Health. Quarterly meeting. Chicago, April 19 and 20, 1888.
- Annual Report of the Board of Health of the City of Fall River, 1887.
- Third Annual Report of the Board of Health of the City of Hartford, Conn., year ending February 29, 1888.
- Report of the State Board of Health of Connecticut, 1887.
- First Annual Report of the State Board of Health of the State of Ohio for the year ending October 31, 1886.

Annual Report of the Board of Health of the City of Toledo, Ohio, year ending December 31, 1887.

Nineteenth Annual Report of the State Board of Health of Massachusetts.

Annual Message of Hon. Bryan Callaghan, mayor of the city of San Antonio, etc., for fiscal year ending February 29, 1888.

Annual Reports of Board of Health, City Physician, etc., of Lowell, Mass., 1887.

Report of Board of Health of the City of Keokuk, Iowa, year ending March 31, 1888.

Fourteenth Annual Report of the Board of Health of Knoxville, Tenn., for 1887.

Fourth Annual Report of the Board of Health of Syracuse, N. Y., 1887.

Fifteenth Annual Report of the Board of Health of New Haven, Conn., 1887.

Report of the Department of Health of the City of Chicago.

Fourteenth Annual Report of the State Board of Health of Michigan, 1886.

Proceedings and addresses at a Sanitary Convention held at Traverse City, Mich., August 24 and 25, 1887.

Proceedings and addresses at a Sanitary Convention held at Owosso, Mich., November 22 and 23, 1887.

Report of the Health Officer of Rochester, N. Y., year ending April 1, 1888.

Smithsonian Report, 1885, Part II.

Report on School Hygiene. Extract from Seventh Annual Report of the New York State Board of Health.

Report of the Health Officer of Newburgh, N. Y., for the year 1887.

Medical and Surgical History of the War of the Rebellion. Part III. Medical Volume.

Tenth Annual Report of the State Board of Health of Rhode Island for the year ending December 31, 1887, including births, marriages, and deaths in 1886.

Seventh Annual Report of the Board of Health of Detroit, Mich., 1887-'88.

Beretning om Folkemængden og Sundhedstilstanden i Christiania i Aaret 1887.

Eighth Annual Report of the New York State Board of Health, 1888.

Thirty-third Annual Report of Births, Marriages, and Deaths in the City of Providence, R. I., for the year 1887.

Eleventh Annual Report of the Health Commission of Saint Louis, Mo., 1887-'88.

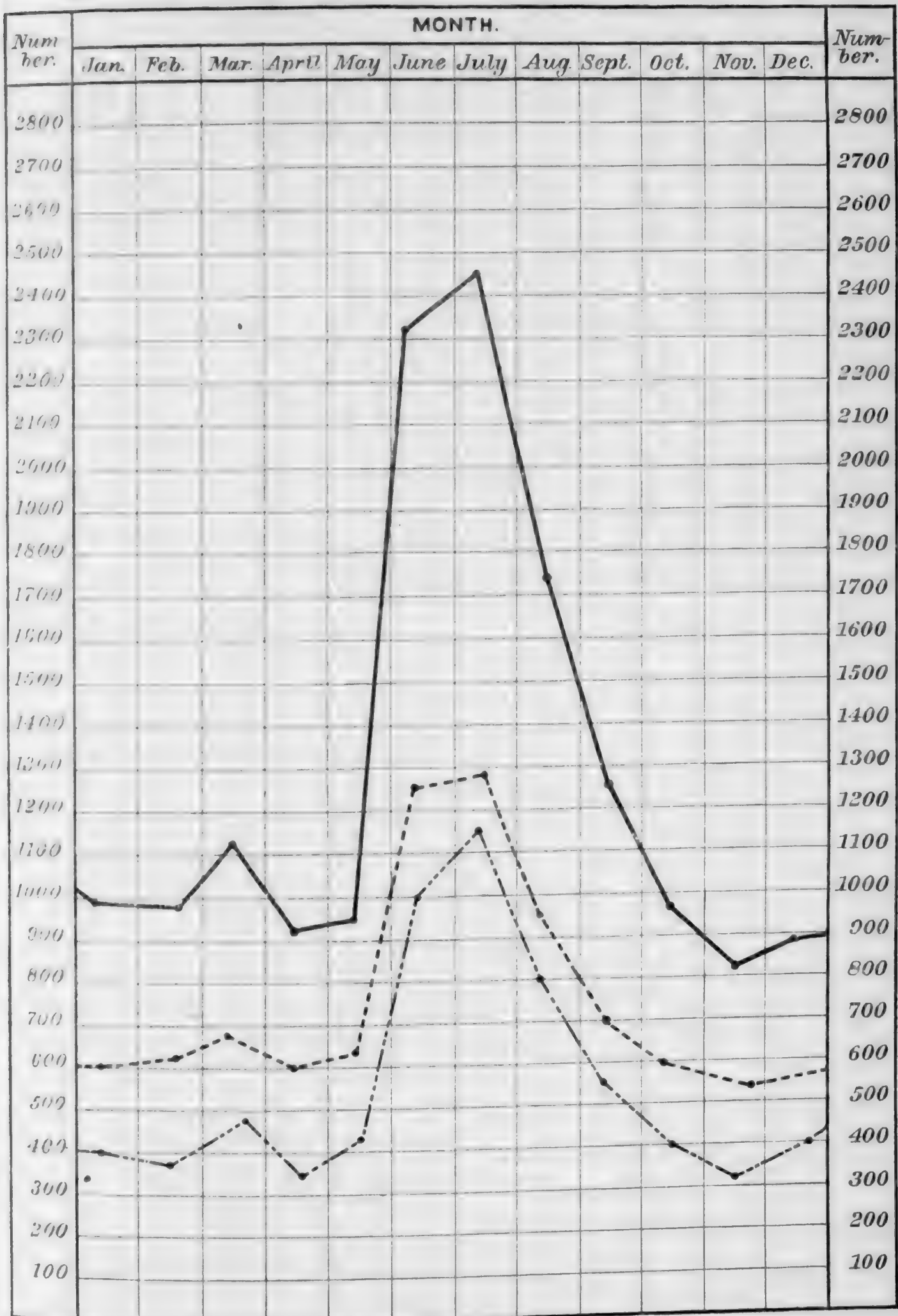
Annual Report of the Commissioner of Pensions for 1887.

Transactions of the Medical and Chirurgical Faculty of the State of Maryland, April, 1888.

A.

CHART TO TABLE XXII.

Illustrating the deaths of infants under one year old, compared with those of white and colored infants, for THIRTEEN years, to June 30, 1888.

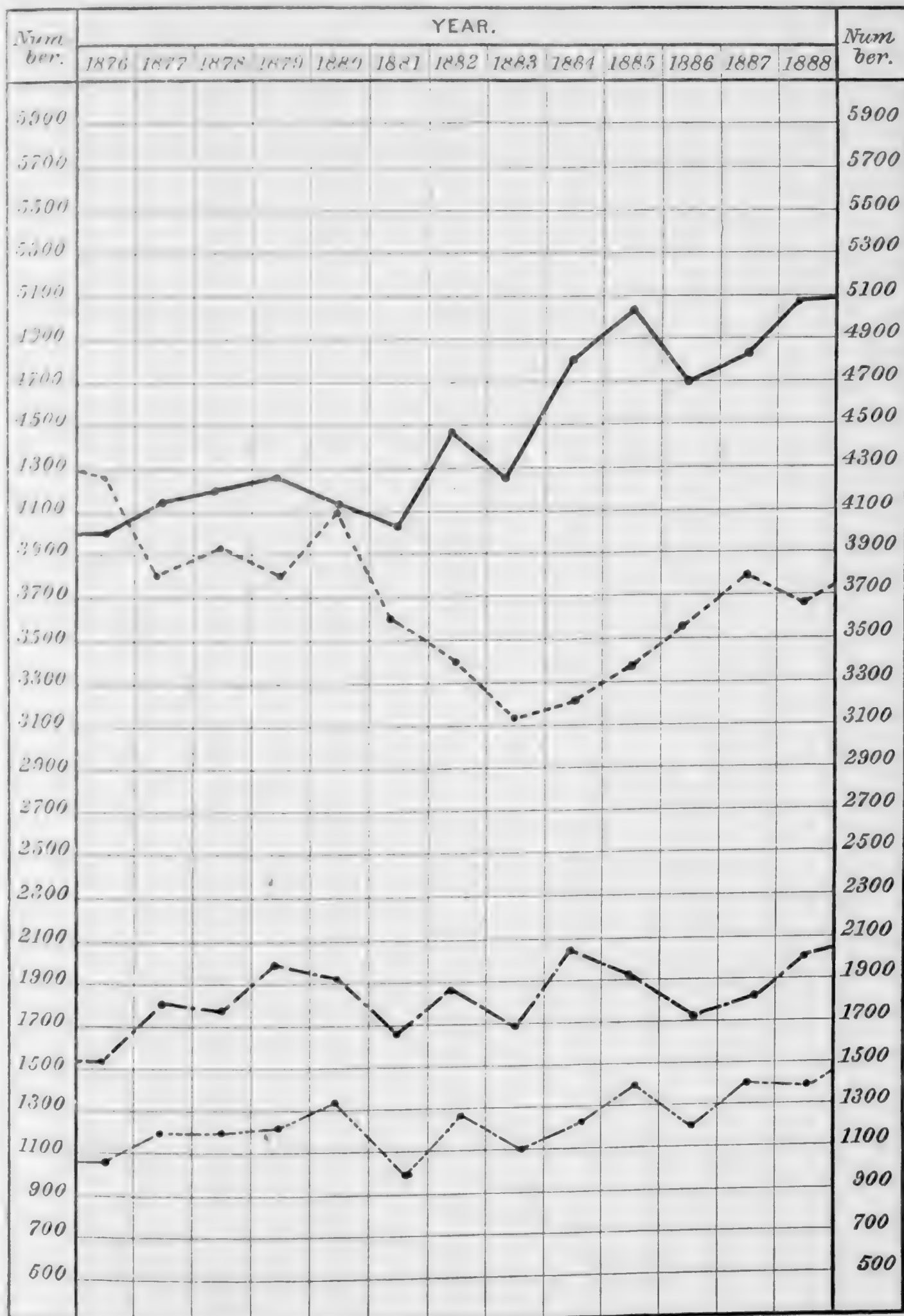


- Total deaths of infants under one year old.
- - - Deaths of colored infants under one year old.
- Deaths of white infants under one year old.

B.

CHART TO TABLE XXIV.

Showing the relative number of deaths of infants under one year old to those under five years of age, and of those of all ages, and to births, for THIRTEEN years, to June 30, 1888.

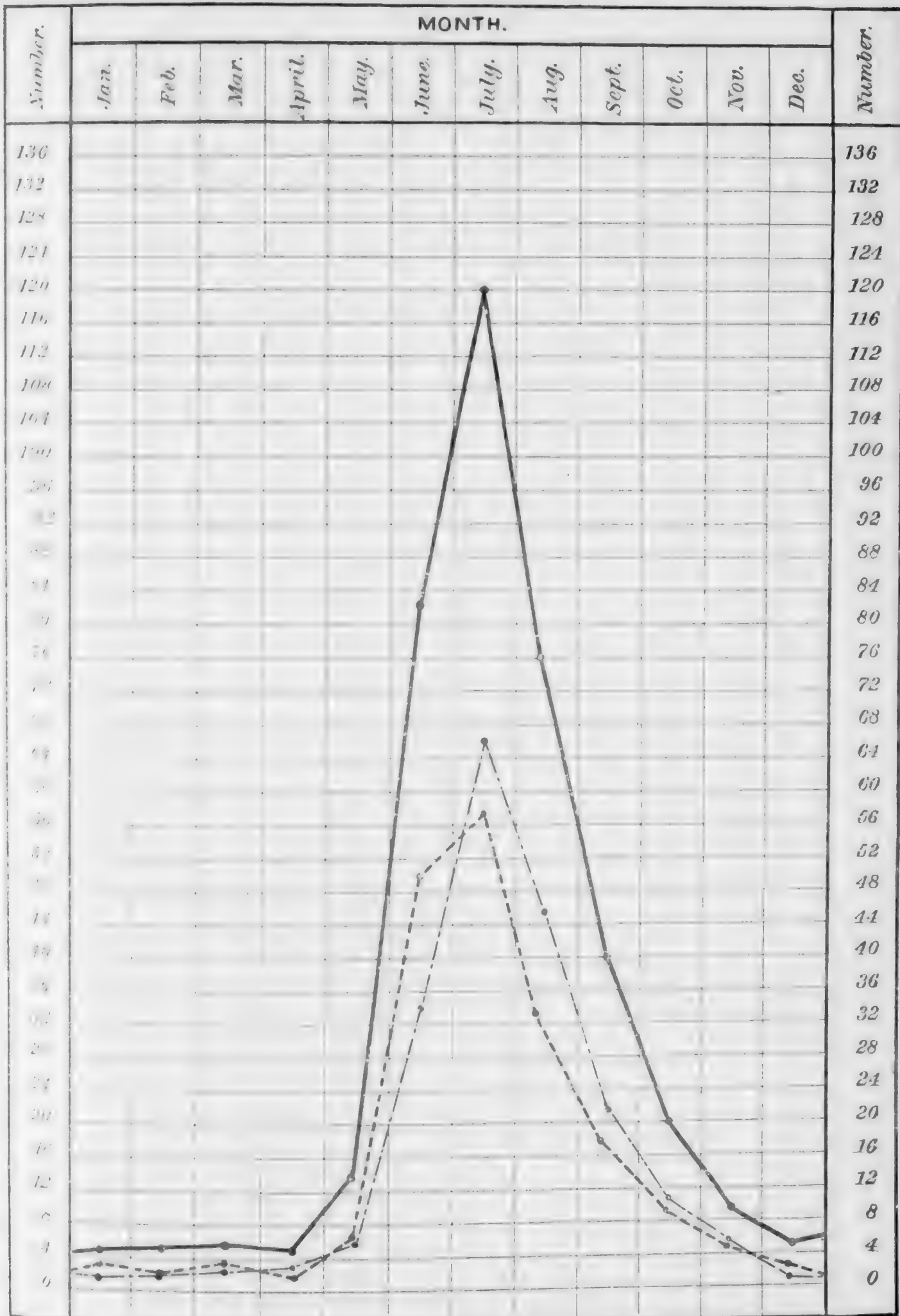


- Deaths of all ages.
- Total births.
- Deaths under five years old.
- Deaths under one year old.

C.

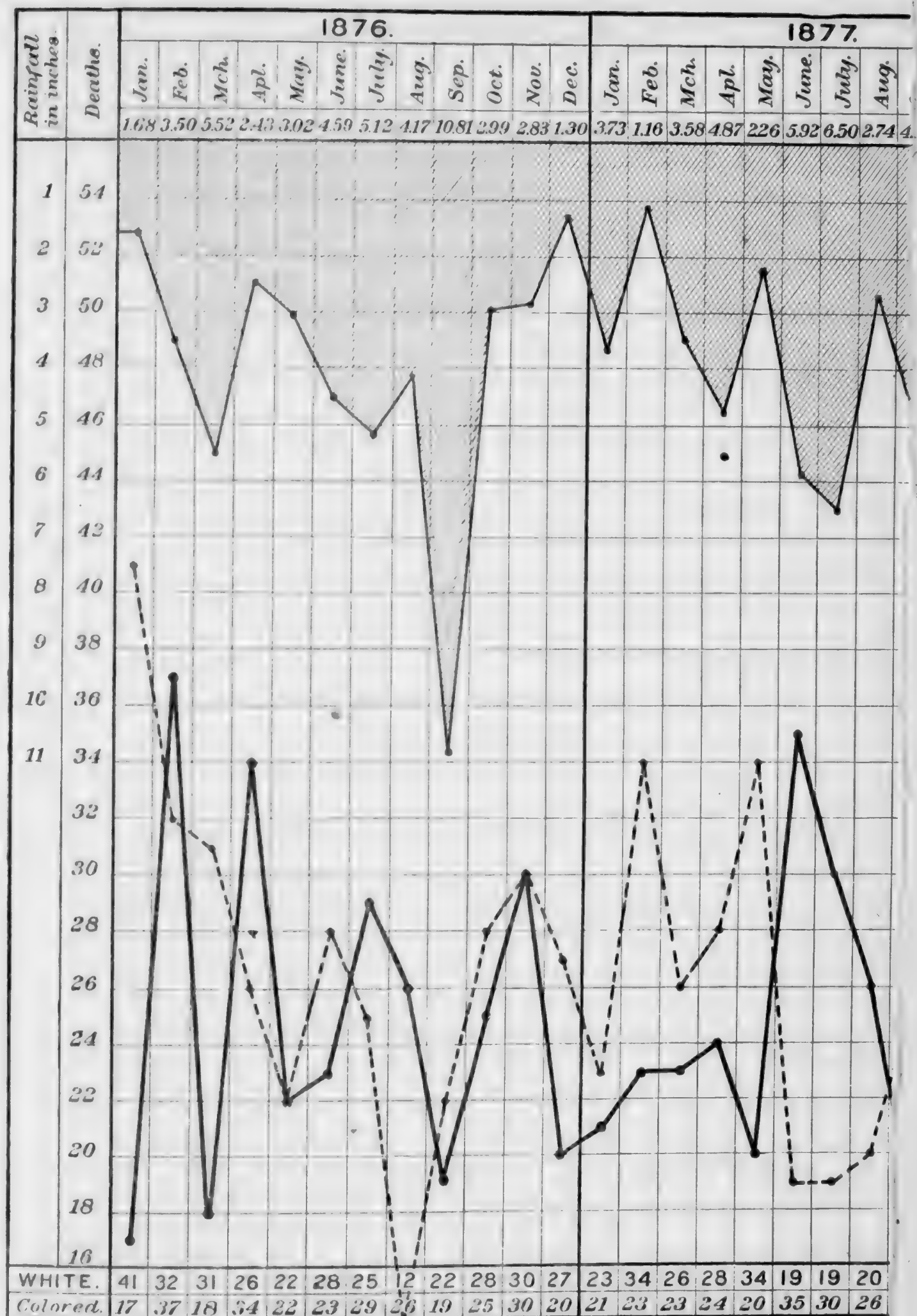
CHART TO TABLE XXVI.

Illustrating the mean monthly mortality from diarrhoeal diseases during the ELEVEN years ending December 31, 1887.



— Total.
 - - - Whites.
 . . . Colored.

Rept. Dist. Comrs., 1888,



- - - - - White deaths from consumption.
 ————— Colored deaths from consumption.



CHART F.

Illustrating the mean number of deaths, from consumption, for each of the TWELVE months, and the mean precipitation in inches. Based on the returns from January, 1876, to December, 1887, inclusive,

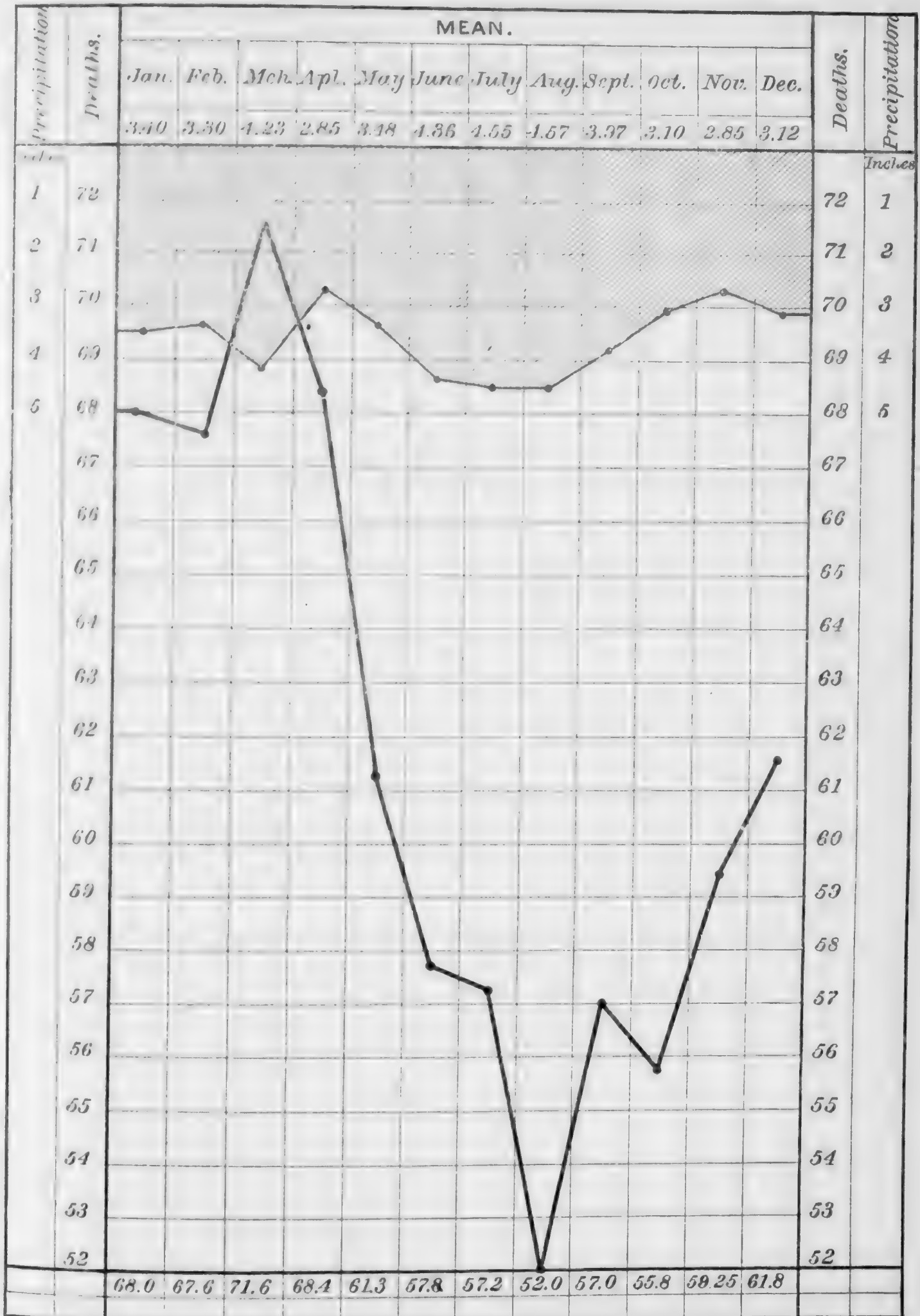
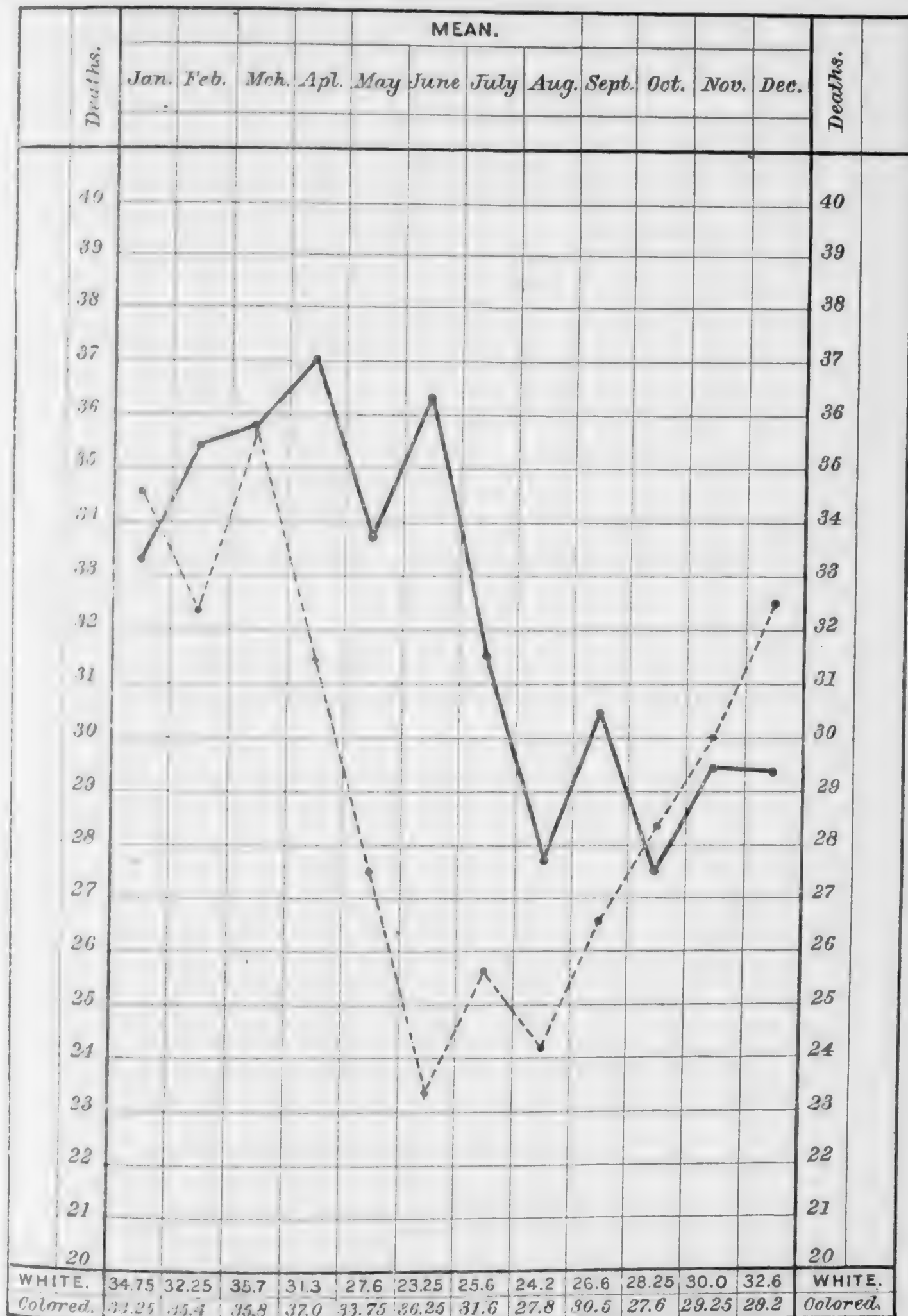




CHART G.

Illustrating the mean number of deaths, from consumption, by color, for each of the TWELVE months. Based on the returns from January, 1876, to December, 1888, inclusive,



----- White.

———— Colored

Rept. Dist. Comrs., 1888.

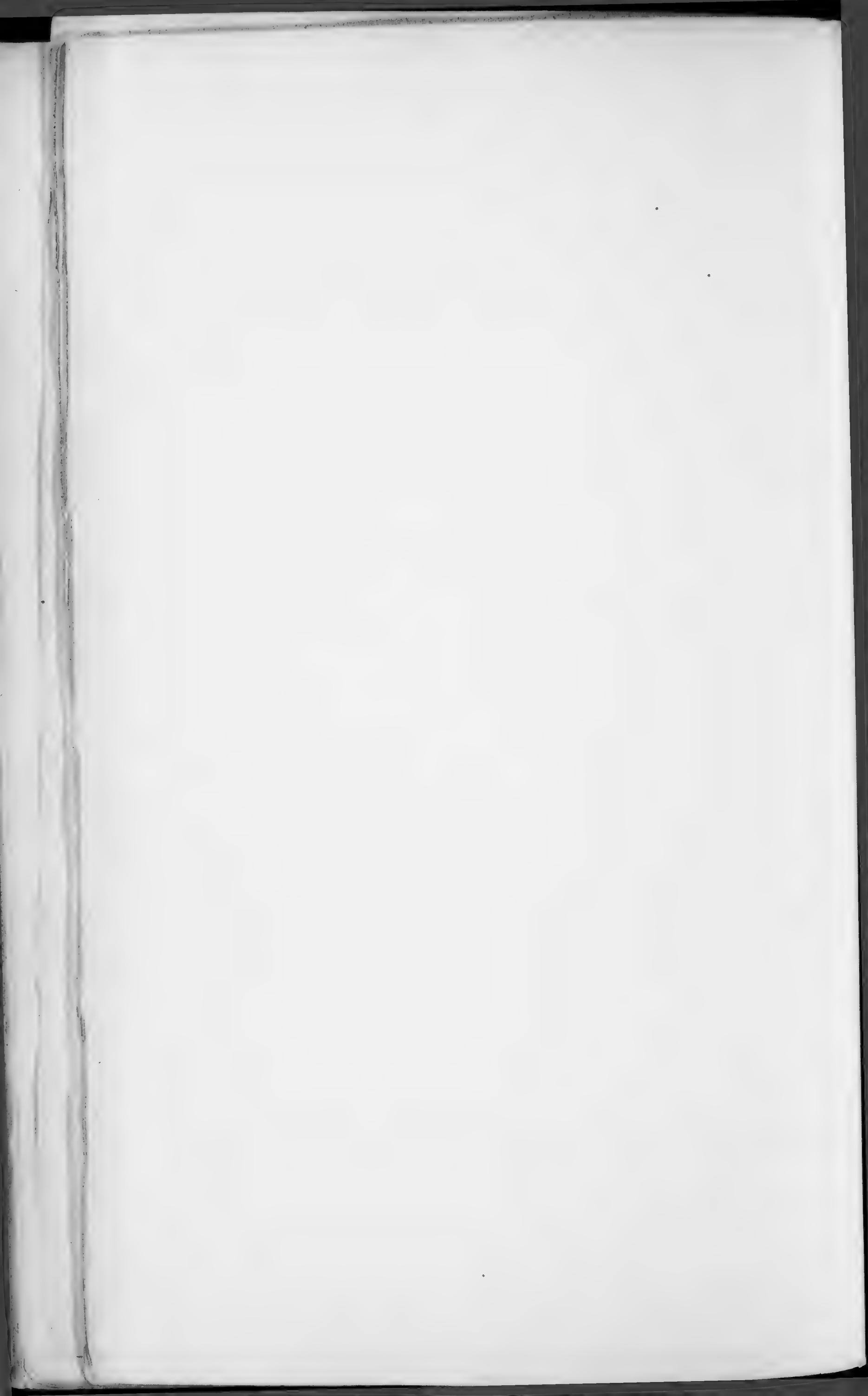
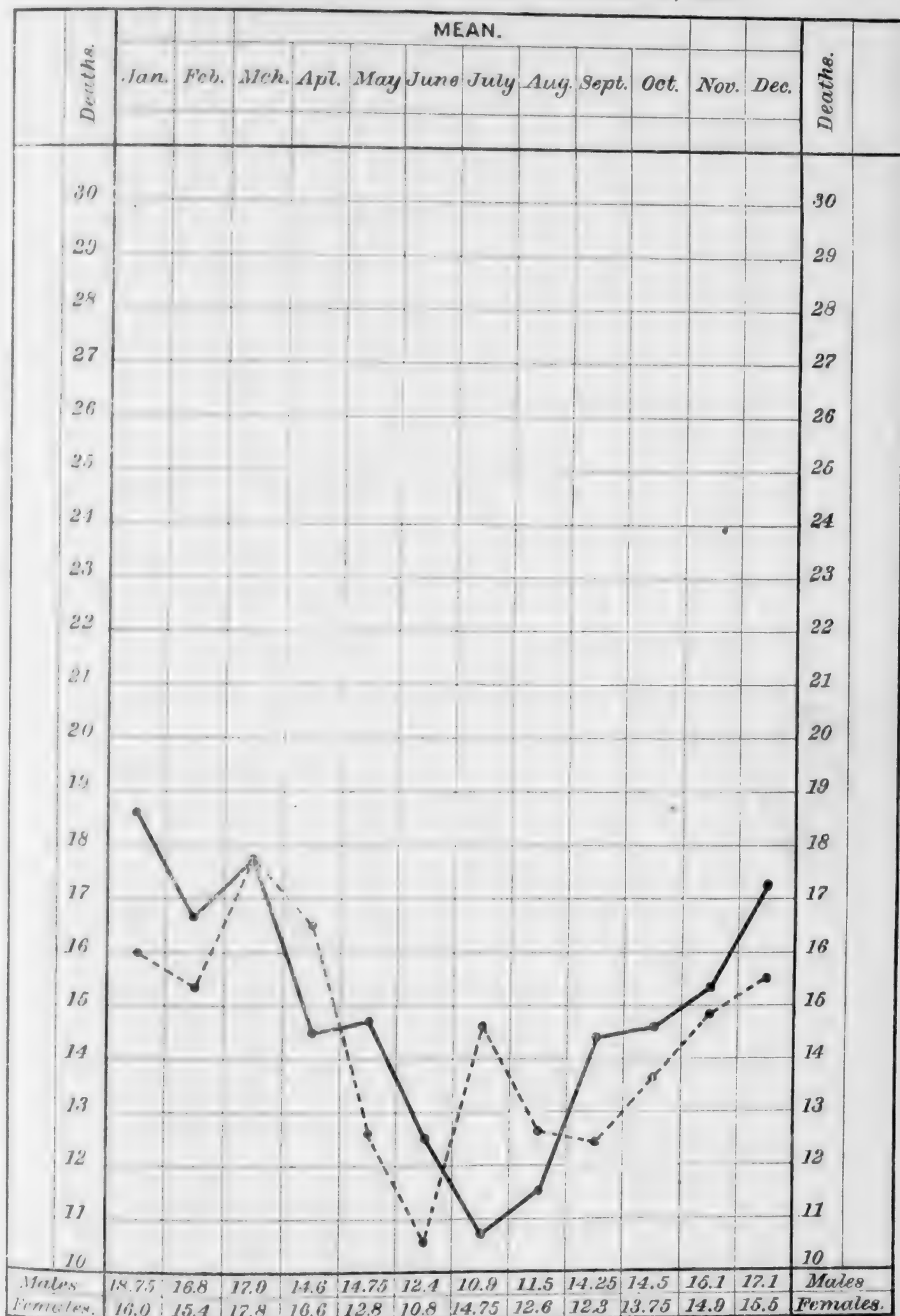


CHART H.

Illustrating the mean number of deaths, from consumption, of the WHITE race, by sex, for each of the TWELVE months. Based on the death returns for the TWELVE years ending December 31, 1887.

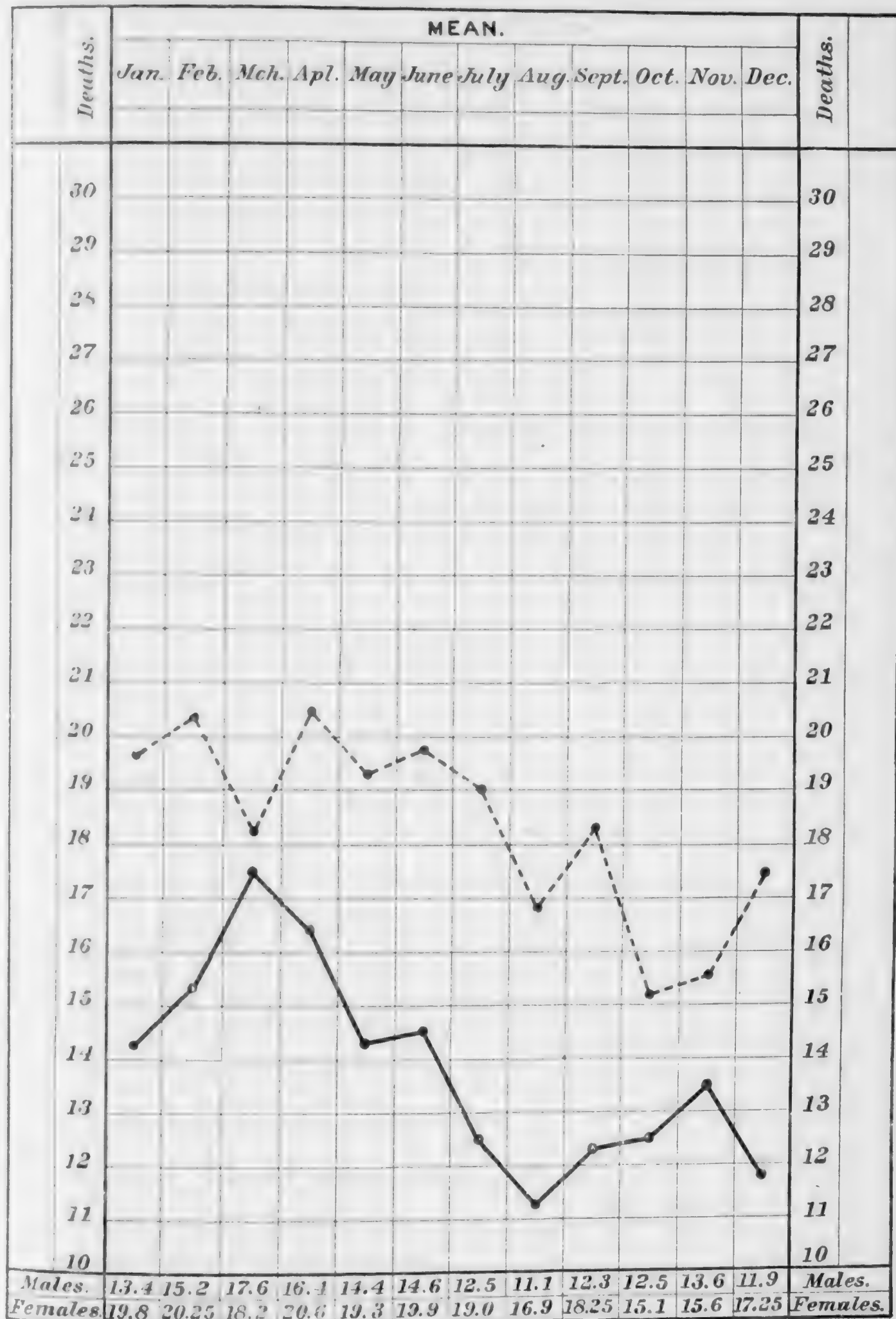


— White males.
 - - - White females.

Rept. Dist. Comrs., 1887.

CHART I.

Illustrating the mean number of deaths, from consumption, of the COLORED race, by sex, for each of the TWELVE months. Based on the death returns for the TWELVE years ending December 31, 1887.



— Colored males.
 - - - - - Colored females

Rept. Dist. Comrs., 1888.

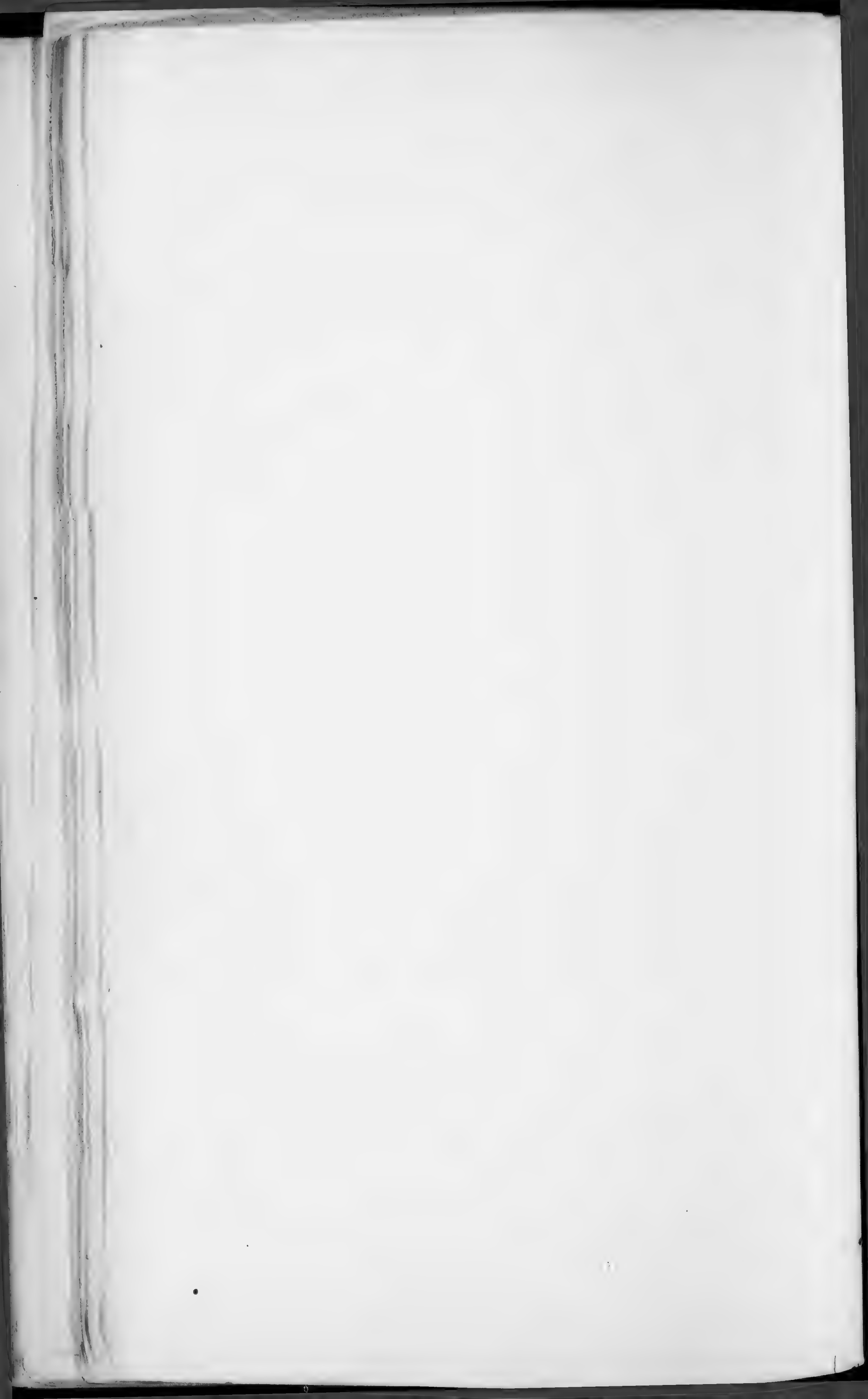
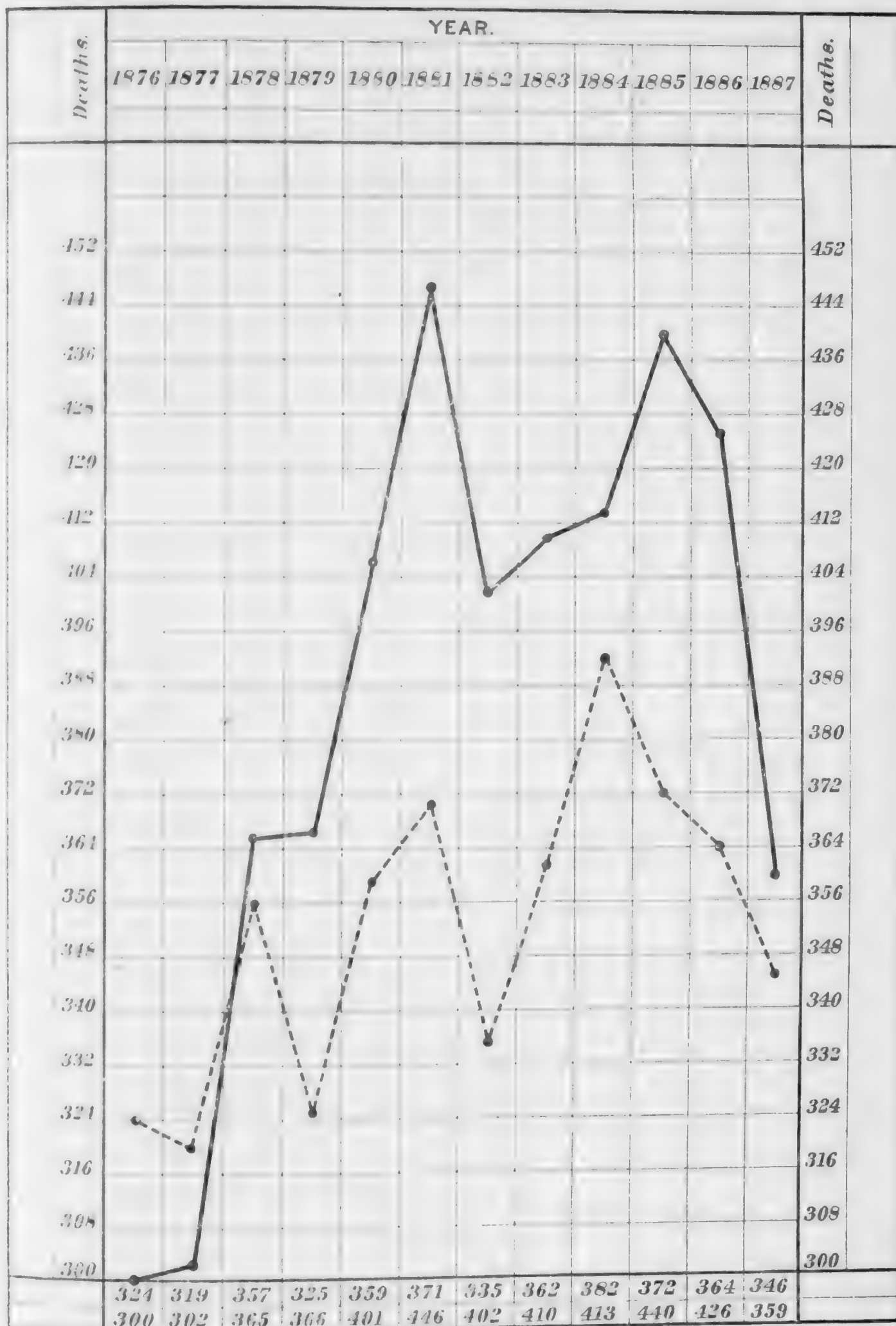


CHART K.

Illustrating the number of deaths, from consumption, by color, for each year, from 1876 to 1887, inclusive.



----- White.
 ————— Colored

Rept. Dist. Comrs., 1888.

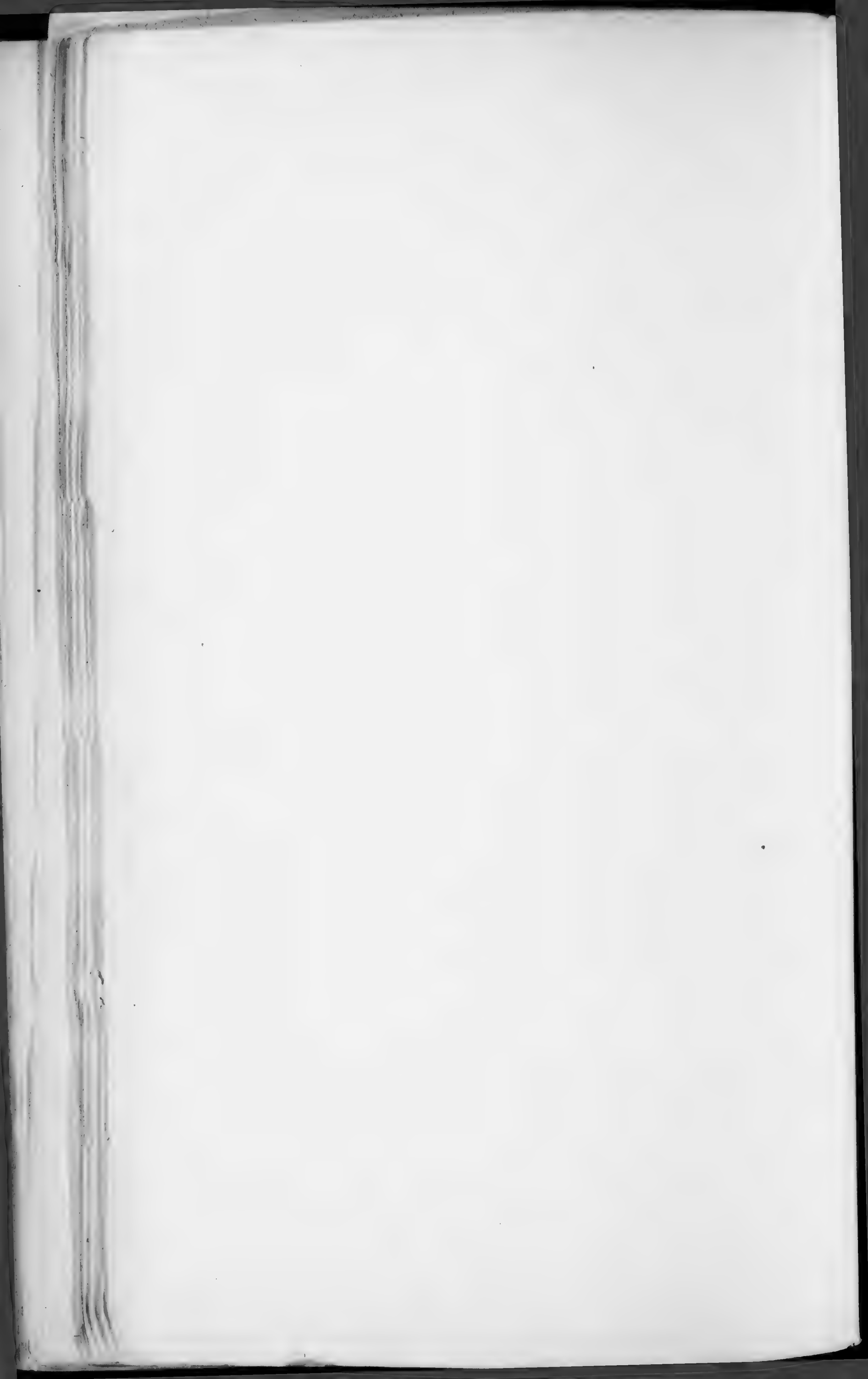
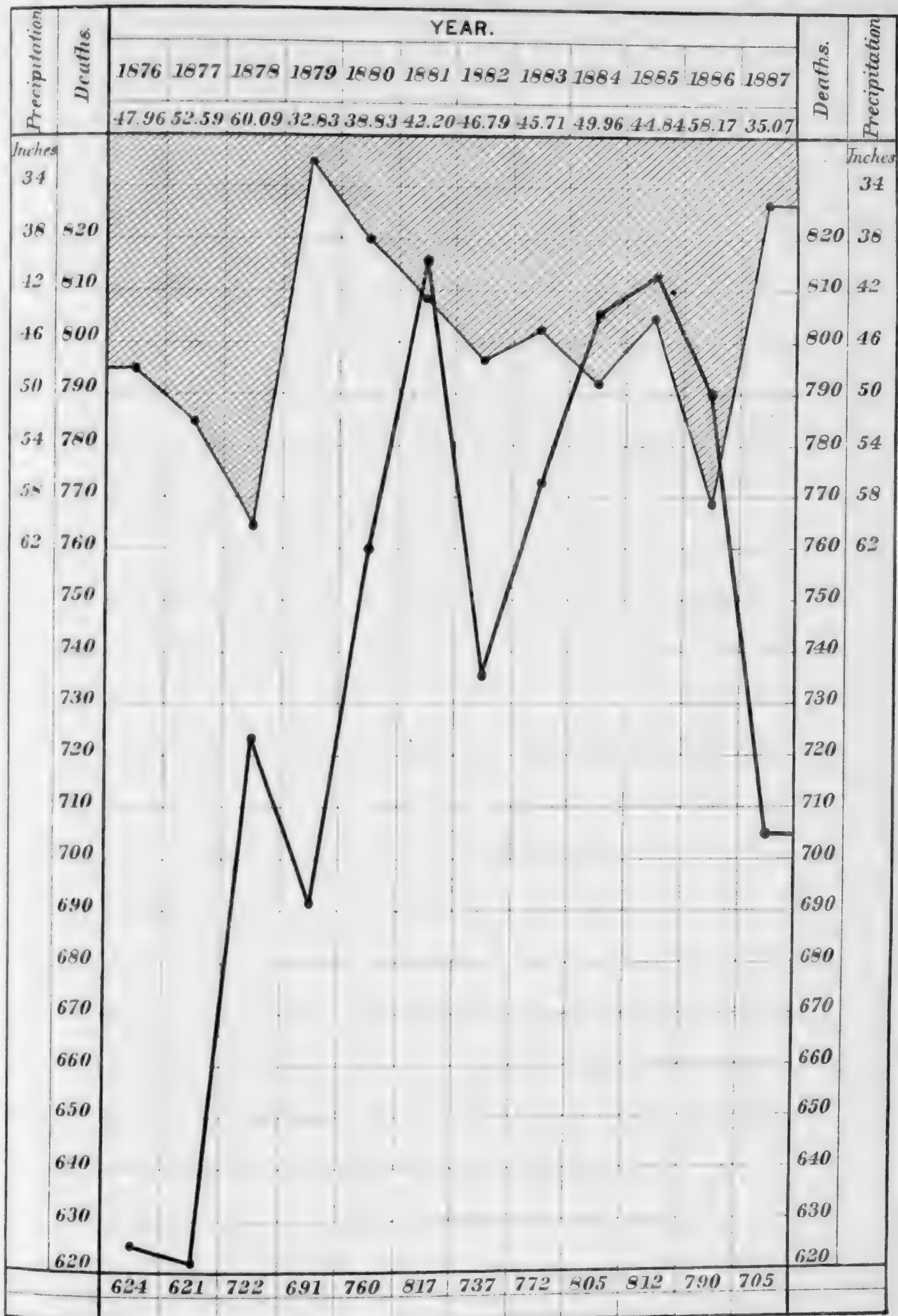


CHART L.

Showing the number of deaths, from consumption, for each year, from 1876 to 1887, inclusive.



Rept. Dist. Comrs., 1888.

DICKSON'S

NATIONAL CAPITAL DIRECTORY

1888.

ABBREVIATIONS.

| | | | |
|---------------------------|------------------------------|-------------------------------|------------------------|
| ab.....above | corres.....correspondent | l s s.....Life-Saving Service | r..... |
| agt.....agent | ct.....court | M C.....Member of Con- | rev marine ser..... |
| ag o.....Adjutant-Gener- | dept.....department | gress | nue Marine Serv |
| al's Office | dept jus.. Department of | mess.....messenger | rd..... |
| agr.....Agricultural De- | Justice | mkr.....maker | reg o.....Register's O |
| partment | div.....division | mkt.....market | Treasury |
| agr imps.....agricultural | d l o.....Dead Letter Office | mng.....manufacturing | r m s.....Railway |
| in olements | do.....same | mnfr.....manufacturer | Service |
| al.....alley | dry gds.....dry goods | Mt P.....Mt Pleasant | R R.....rail |
|association | e.....east | n.....north | s.....s |
|assistant | E Cap..... East Capitol | n b h..National Board of | S Cap.....South Ca |
|auditor | educ o..Education Office | Health | se.....south |
|avenue | est.....estate | N Cap. ....North Capitol | sec.....secre |
|below | exam.....examiner | naval obs.....Naval Ob- | servt.....serv |
| dg.....building | fr.....from | servatory | s g o ..Surgeon-Gene |
| lksmith.....blacksmith | ft.....foot | ne.....northeast | Office |
| bk bndr.....book binder | furng.....furnishing | N L.....Northern Liberty | sig o.....Signal |
| bk kpr.....book keeper | geol sur..Geological Sur- | nr.....near | sp..... |
| d pension appeals..... | vey | nw.....northwest | sq.....s |
| Board Pension Ap- | g l o.....Gen'l Land Office | opp.....opposite | stengr.....stenogr |
| peals | g pr o.....Government | paperhng..paperhanger | stereo.....stere |
| tr ptg.....Bureau En- | Printing Office | pat o.....Patent Office | supt.....superint |
|Printing | h.....house | pen o.....Pension Office | sw.....sou |
|rner | H R.....House of Repre- | phongr...phonographer | tel.....tele |
|er | sentatives | photgr....photographer | tel opr...telegraph |
| | hts.....heights | pk.....park | ator |
| | hydro.....Hydrographic | pl.....place | tpk.....ti |
| | Office | pl prin.....plate printer | treas.....treasurer |
| | o.....Indian Office | paym g o.....Paymaster- | ury Departmer |
| |insurance | General's Office | uphols.....uph |
| |instrument | p o d.....Post-Office De- | U S A.....Unit |
| | terior Departm't | partment | Army |
| | ternal revenue | P P.....Pleasant Plains | U S m c...United |
| | ge Advocate | pres.....president | Marine Corps |
| | Office | prin.....principal | U S N.....Unit |
| |justice | prof.....professor | Navy |
| |lane | prop.....proprietor | U S S.....Senate, |
| | laborer | provns.....provisions | whf..... |
| | B'rd | q m g o ..Quartermaster- | wid..... |
| | her | General's Office | |

A.

Abbott Lucy E, clk state, 1332
 " Mary C, clk treas, 1332 N
 " S John, agt, 615 E Cap
 W H clk Smithsonian.
 William E, gro, 739 11th
 nw, tel **1019-4**, h 18
 William H, carp, 1122 I
 am H, clk, 1014 10
 erick, mchnst,
 d, clk, 931 D 10
 wid John, &
 b, Hillsdale
 driver, 131
 watchman

H. SNYDER. G. O. WOOD.

SNYDER & WOOD, MERCHANT TAILORS,

423 ELEVENTH STREET, N. W.,

Between Penna. Avenue and E Street,

Washington, D. C.

& Warner, lawyers, (Charles Abert and John W Warner), 482 La av nw
Abert Charles (Abert & Warner), Mont-
gomery Co, Md
Ellen, clk dep jus, 1635 L nw
Sylvanus, civil eng, 802 21st nw
William B, copyist, 1903 G nw
William S, lawyer, 1125 10th nw
Eliza, servt, 3 Foundry pl nw.
Henry, 1110 F nw
William T, lab 109 M se
ett Samuel, harness mkr, 611 Pa av se
NER EDWARD, restaur 415 E Cap
ier Theodore C, carp, 415 E Cap
ier's Music Hall, 708 E nw, tel **146-2**
aham Alexander, clk a g o, 1232 9th nw
James H, agt, 1112 B ne
Lehman E, cigars, 919 D nw
Lewis, lawyer, 1311 F nw, h 1232 9th nw
Wallace W, canvasser, 1112 B ne
aham Edward, electrotyper, 61 H ne
Horace B, caterer, 1630 11th nw
RAMS. JESSE D, deputy
comptroller currency, 1331 G nw
Sarah T wid James A, 1106 N H av nw
us Elizabeth M wid James, 639 Mass
av ne
George B, clk a g o, 300 1st se
George G, 300 1st se
offerson, waiter, 1749 K nw
laria, 1749 K nw
ny of the Holy Cross, 1312 Mass av
nw
f the Sacred Heart of Mary, Cc 8th sw
f the Visitation, 38th c Q nw
nt Life Insurance Company of North
America (Montreal, Canada), Mon-
roe, Anacostia
lly Bartholomew J, bkkpr
tter Augustus, barber, 226 1-2 C ne,
h 226 C ne
arles, carp, 206 N Y av nw
Albert E, druggist, 3d c Pa av nw
-), h 133 E nw,
stonecutter, 37 E nw
a J (Acker & Co), 103 E nw
stonecutter, 111 4th se
clk pat o, 111 4th se
L, wid Jacob N, 821 9th
A, clk 133 E nw
wid Nicholas, 133 E nw
id, clk pen o, 111 4th
lawyer, 1008 F nw

821 9th nw
O (W J an)
stoneyard,

LLIAM J
v n

Ackerman Morris L, clk, s g o, 436 M nw
Acklen William H, lawyer, 5 Iowa c nw
Ackman George, upholst, 639 H nw
Acred Robert S, bricklyr, 617 Va av se
Acton Caroline P, wid George, 505 E sv
" Chevis, porter, 2608 Dumbarton av
" George C, lab, 916 11th se
" George Q, clk Albaugh's
House, h 1914 K nw
" George T, 1435 Ohio av nw
" James, fireman, 922 22d nw
" Jessie, sewing, insane asy
" John C, butcher, 582 entr and 17 casta
mkts, h Anacostia r
" Joseph, engr, 930 22d nw
" Joseph, police, 104 4th se
" Josephine, dressmkr, 1324 C se
" Laura, servt, 2608 Dumbarton av nw
" Marcellus, lab, 1621 E se
" Martha E, wid James, 1914 K nw
" Richard A, farmer, Benning's rd
" William E, butcher, Anacostia rd
" William E, clk, Anacostia
Acwith, Abram, mess, 1622 R nw
Adam, Bertha R, 422 8th se
" Clinton, clk, 1402 I nw
" John, bartender, 814 D se
Alams A, waiter, 71 Jackson al nw
" A A, clk Smithsonian, Kendall G
" Ada C, 636 Louisiana av nw
" Ada G, clk treas, 947 R I av nw
" Adolphus, lab, 1136 20th nw
" Agnes D, wid Webster M, 4 I ne
" Albert, lab, 1240 Madison nw
" Albert F, clk nat mus, 919 F nw
" Alfred A, clk, 2nd and o, 922 N Y av n
" Alice, cook, 1815 H nw
" Alice A, washing, 120 Q nw
" Alice M, 1028 16th nw
" Allen R, stengr, 1200
" Amos S, tel opr, 1
" Ann L, notions
" Anna B, bur
" Annie, wash
" Annie E, c
" Annie K,
" Annie M
" Arthur
he
c
" P
"

P II.

AP

Nº II. MAP OF THE CITY OF WASHINGTON

SHOWING LOCATION OF FATAL CASES OF ZYMOTIC DISEASES
FOR THE YEAR ENDING JUNE 30, 1888.

EXPLANATION:

- TYPHOID FEVER
- × MALARIAL FEVER
- SCARLET FEVER
- DIPHTHERIA
- ✕ DIARRHOICAL DISEASES



N^o III.

MAP

OF THE

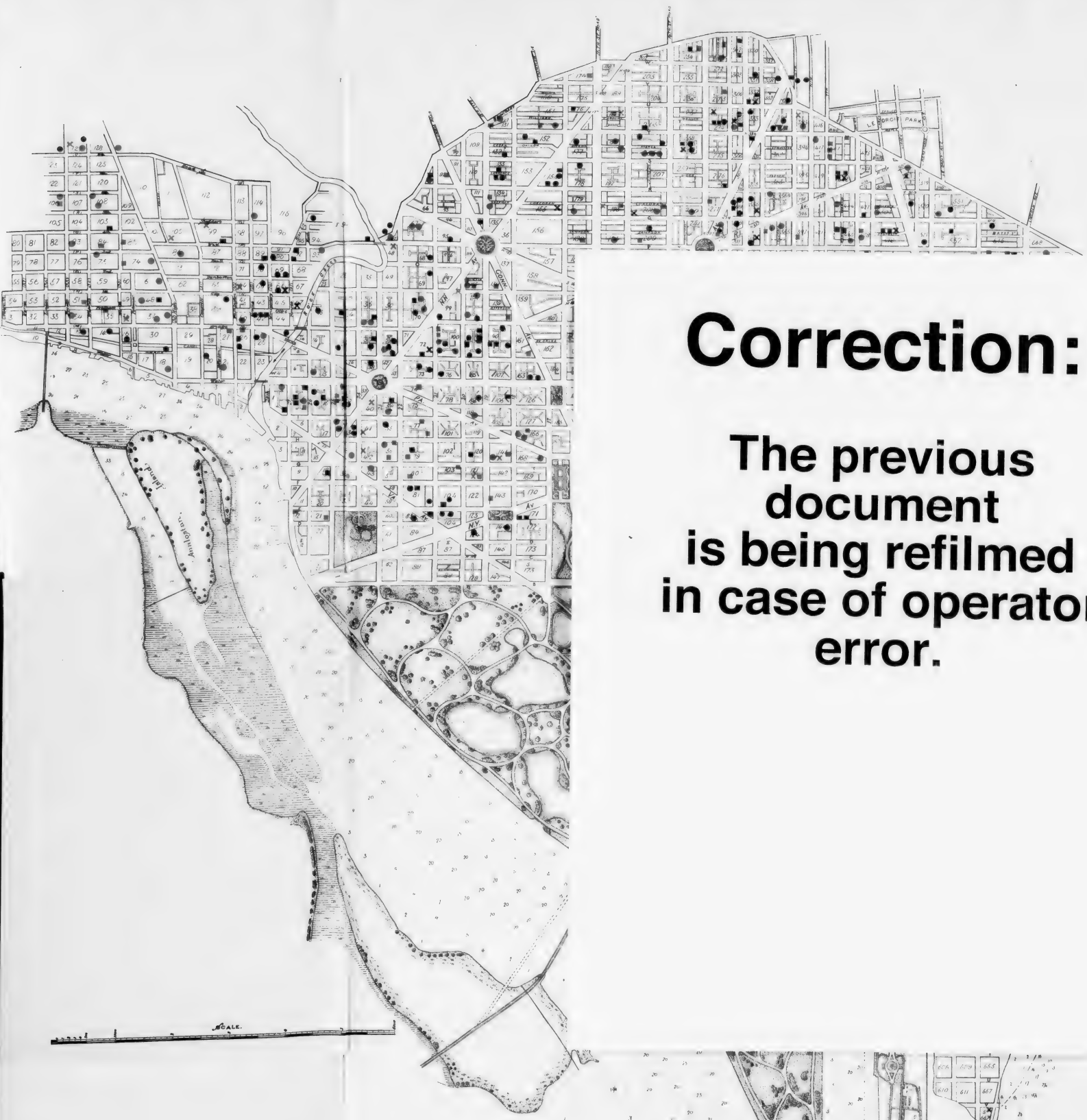
CITY OF WASHINGTON

SHOWING LOCATION OF FATAL CASES OF LUNG DISEASES
FOR THE YEAR ENDING JUNE 30, 1888.

EXPLANATION:

- | | | |
|---------------------------|---------|---|
| CONSUMPTION | WHITE | ● |
| | COLORED | ○ |
| PNEUMONIA AND BRONCHITIS | WHITE | ■ |
| | COLORED | □ |
| OTHER ACUTE LUNG DISEASES | WHITE | × |
| | COLORED | + |





N^o III.
MAP
 OF THE
CITY OF WASHINGTON

SHOWING LOCATION OF FATAL CASES OF LUNG DISEASES
 FOR THE YEAR ENDING JUNE 30, 1888.

EXPLANATION:
 CONSUMPTION WHITE
 COLORED
 PNEUMONIA AND BRONCHITIS WHITE
 COLORED
 OTHER ACUTE LUNG DISEASES WHITE
 COLORED

Correction:
 The previous
 document
 is being refilmed
 in case of operator
 error.



N. Peters, Photo-Lithographer, Washington, D. C.

N^o III. MAP OF THE CITY OF WASHINGTON

SHOWING LOCATION OF FATAL CASES OF LUNG DISEASES
FOR THE YEAR ENDING JUNE 30, 1888.

EXPLANATION:

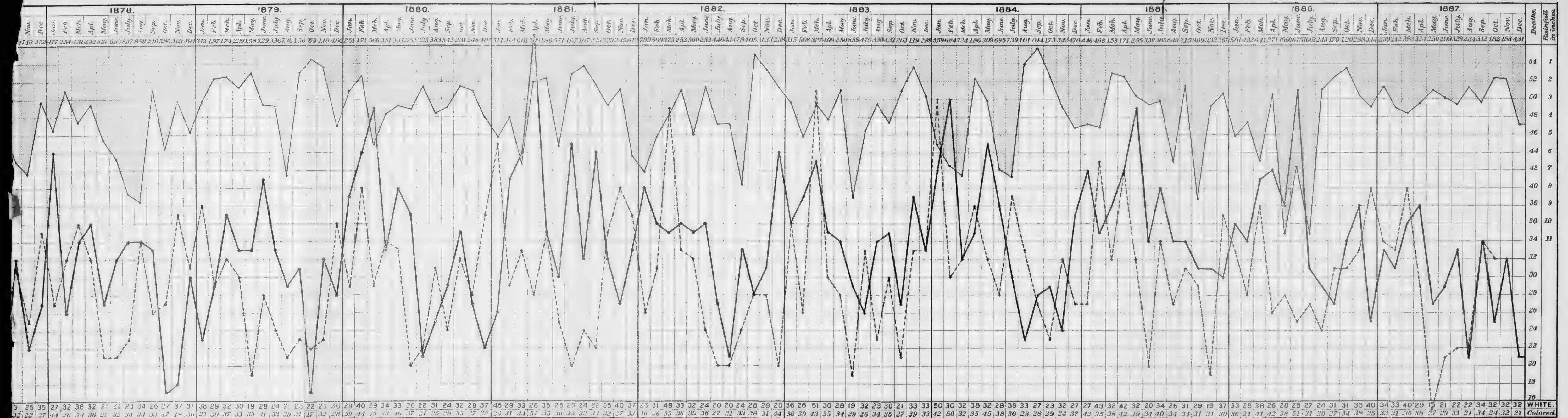
| | | |
|---------------------------|-------|---|
| CONSUMPTION | WHITE | ● |
| | COLOR | ● |
| PNEUMONIA AND BRONCHITIS | WHITE | ○ |
| | COLOR | ○ |
| OTHER ACUTE LUNG DISEASES | WHITE | × |
| | COLOR | × |



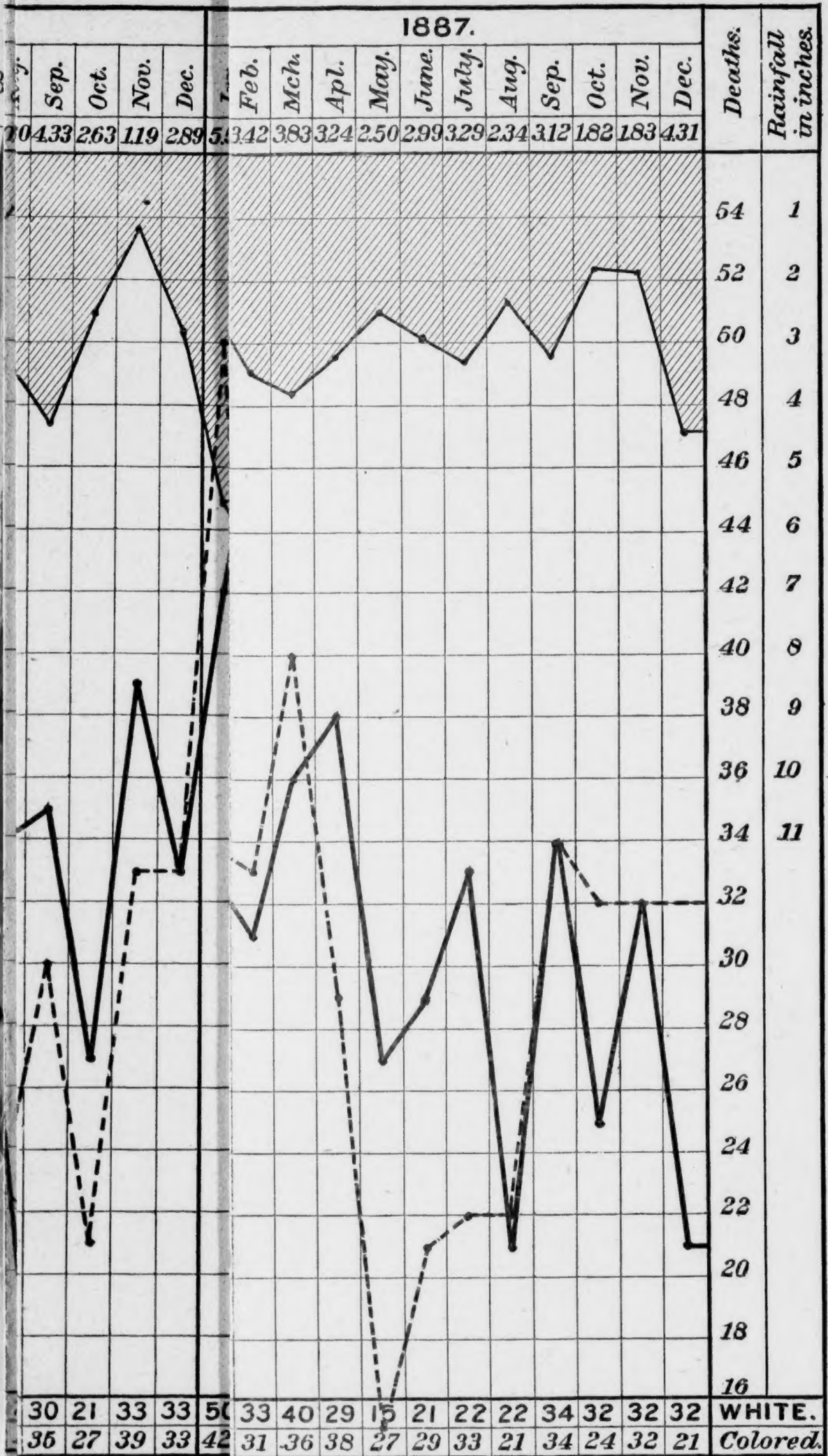
N. Peters, Photo-Lithographer, Washington D. C.

CHART E.

SHOWING THE ACTUAL NUMBER OF DEATHS FROM CONSUMPTION, BY COLOR, FOR EACH MONTH, FROM JANUARY, 1876, TO DECEMBER, 1887, INCLUSIVE; ALSO THE PRECIPITATION, IN INCHES, FOR THE SAME PERIOD.



THE PRECIPITATION



H. SNYDER.

SNYD

ERCH

423 ELEV

Between Pe

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& Warner

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Abert Cha

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Ellen, clk

Sylvanus,

William E

William S

Eliza, ser

Henry, 11

William T

ett Samuel.

NER ED

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aham Alexa

James H,

Lehman E

Lewis, law

Wallace W

aham's Edw

Horace B,

RAHAM'S

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Sarah T wi

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George B,

George G,

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V D

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